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CORPORATE TITLE

"University of Scranton"
Scranton
Pennsylvania

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UNIVERSITY CALENDAR

1945

July 1-9.....Registration
July 9.....Accelerated Semester begins
July 31.....Feast of St. Ignatius
August 15.....Feast of the Assumption
August 18.....Summer Session ends
September 3.....Labor Day
October 15-19.....Semester Examinations
October 17-19.....Registration
October 22.....Fall-Winter Semester begins
October 26.....Mass of the Holy Ghost
November 1.....Feast of All Saints
November 19-21.....Annual Retreat
November 22.....Thanksgiving Day
December 21.....Christmas Recess begins

1946

January 2.....Classes resume
February 11-15.....Semester Examinations
February 18.....Spring Semester begins
February 22.....Washington's Birthday
April 18.....Easter Recess begins
April 23.....Classes resume
May 30.....Ascension Thursday, Memorial Day
June 3.....Final Examinations

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Reverend Edward G. Jacklin, S.J.,
Vice-President, Dean of Studies

Reverend John J. McGrath, S.J.,
Treasurer

Reverend John J. Coniff, S.J.,
Dean of Men

Reverend Aloysius J. Miller, S.J.,
Librarian

Reverend Vincent I. Bellwoar, S.J.,
Student Counselor

Frank J. O'Hara
Assistant to the President and Registrar

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(On leave of absence)

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MARY A. ROSE, A.B. *Assistant Librarian*	824 Delaware Street
JOSEPH G. SAVULIS, B.S. *Instructor in Mathematics*	117 Lackawanna Avenue, Duryea, Pa.
HERMAN L. SENKER, M.A. *Professor of Business Administration* *(On leave of absence)*	435 Breck Street
EUGENE P. WILLGING, A.B., A.B. in L.S. *Librarian* *(On leave of absence)*	300 Wyoming Avenue
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LEONARD N. WOLF, Ph.D. *Professor of Biology*	818 Richmont Street
HAROLD A. WREN, Ph.D. *Professor of Education*	331 Wyoming Avenue

General Information

HISTORY

The University of Scranton owes its foundation to the wisdom and foresight of the Right Rev. William O'Hara, D.D., Bishop of Scranton. Realizing the need of an institution of higher education in the northeastern counties of Pennsylvania he established in 1888 the College of St. Thomas, which was subsequently chartered under the laws of Pennsylvania on January 12, 1923, and given the power to confer Bachelor and Master degrees in the arts and sciences. In 1937 a change in title was authorized and St. Thomas College became the present University of Scranton. During this period of steady growth and expansion, from 1897 to 1942, the University was under the able administration of the Brothers of the Christian Schools. They were succeeded by the Society of Jesus in June, 1942, when the Jesuit Fathers in continuance of their historic educational activities on the continent assumed ownership and control of the University at the invitation of the Most Rev. William J. Hafey, D.D., the Bishop of Scranton.

CAMPUS

The buildings of the University are situated on Wyoming Avenue near the center of the city. In the main building are located the offices of the administration, the library, the auditorium and cafeteria, the science laboratories and a number of classrooms. A separate building houses the general chemistry laboratory and the offices of various student organizations. La Salle Hall contains the offices of the President, the students' chapel and consultation rooms. The Scranton Estate, the generous gift of Mr. Worthington Scranton, comprises about five acres of land and a large mansion, which now serves as a residence for the Jesuit Faculty. The Scranton Estate has been enlarged through the beneficence of Attorney M. J. Martin, regent and legal advisor of the University, by the gift of six building lots adjoining the property on Linden Street. On May 18, 1945, the University acquired title to a tract of eight and a half acres; the gift of Mr. E. P. Dietrick, it will be developed into an athletic field to be known as Dietrick Field in honor of his son.

SYSTEM OF EDUCATION

The system of education in force at the University of Scranton is no new and untried experiment; on the contrary it is an established tradition, whose methods and objectives have been submitted to the acid test of centuries of experiment and adaptation among peoples and nations the world over. In 1599 its basic principles and educational methods were first officially codified in the famous Ratio Studiorum, which was thoroughly revised in 1832 and further modified from time to time to meet the changing needs of modern education. At the outbreak of this present war there were in existence some two hundred and thirty-six Jesuit colleges and universities, whose educational policies for the most part were guided by this accumulation of four centuries of educational experience and achievement.

Both in the courses it offers and in the methods of teaching it employs the University of Scranton like other Jesuit liberal arts colleges adheres closely to the philosophy of education formulated in the Ratio Studiorum. According to this view a system of education falls short of its real goal if it fails to obtain the balanced and complete development of all the powers distinctive of man. For the primary purpose of education is not so much to acquire a store of information as it is to discipline the various mental powers by training and discipline to correct habits of procedure and thereby to raise to the highest peak of efficiency the native powers of mind with which man is endowed. To the extent then that any system of education develops a man's memory at the expense of his intellect or his emotional sensibilities to the detriment of his will, it fails to attain its full and adequate purpose. Education in its highest form on the contrary envisions as its goal the culture of the whole man in all his physical, mental and moral capacities. Not only must the student learn to observe accurately, to imagine vividly, to discriminate sharply, to judge soberly and to reason closely and solidly; but he must also train his intellect to search for truth with tireless industry and his will and emotions to respond properly to the hierarchy of real values; for, in the exact measure in which he will be found wanting in any of these virtues he will have failed to attain his full maturity, which education is primarily designed to promote.

In line with this philosophy of education the course of study is for the most part prescribed, the reason being that only in this way can a fully rounded education be secured without any essential feature of its training being minimized or overlooked. Doubtless a marked diversity exists in the abilities, powers of concentration and ranges of interest to be found among students. But it is also true that all possess mental powers that are fundamentally alike. Since such native endowments as imagination, judgment, reasoning and volition are of the same essential nature in all, they can be cultivated and strengthened by similar exercises and disciplines. Consequently in striving to attain its goal the Jesuit system of education lays particular emphasis upon certain educational instruments, which—long and varied experience has taught—are best suited to bring into play all the mental powers of its student and to enable them to reach the limit of their expansion.

LIBERAL BACKGROUND

And so to speed the development of the whole man, which is the essence of a liberal education and its only legitimate meaning, the system of education obtaining at the University of Scranton stresses the advantages of a prescribed training in the humanities, in the natural and social sciences, and in logic, philosophy and religion as the best foundation for life and for higher education in any field. By a thorough grounding in literature, science and philosophy the mind in all its phases is instructed in right habits and by a series of naturally graduated steps is brought to maturity without growth in one mental power being allowed to overshadow and thwart the development of another. At the same time the mind is being enriched steadily by the invaluable cultural tradition and wisdom of the past.

While the main emphasis in the course of studies is placed upon the acquisition of a broad liberal education the curriculum is sufficiently flexible to admit of an adequate amount of specialization, particularly in the upper levels. After the student's powers of analysis and discernment have been developed, his special talents tested and his reasoning ability sharpened, he is in a position to choose his career wisely and to make swifter progress in the special studies of his choice. Consequently in his junior and senior years

the student is required to elect a special field of concentration in addition to the prescribed courses of study. This selection gives him the opportunity not only to increase his competency in his chosen field but also to fulfill the particular requirements of the professional school he may wish to enter after he has earned his bachelor's degree.

Such a process of education produces a man of sound and independent judgment with a keen and discriminating sense of values, able to play his part in a free and democratic society with wisdom, independence and distinction. Whether he wishes to take his place at once in the world of men and affairs or whether he wishes to carry his education further in the professions or applied sciences, he leaves the University with a mind fully trained and disciplined for the work he has to do and with a will fully conversant of and bent upon preserving the values on which the christian culture and civilization of the democratic West depends.

RELIGIOUS TRAINING

No matter how solid and thorough the intellectual training of the student it needs to be supplemented by an equally complete training in morality and religion if education is to fulfill adequately its function of developing the natural human powers and thus preparing the student for a fruitful life after leaving college. The more highly trained a man is, the greater his potentialities for good or evil; and consequently the more important the role of religion with its incomparable power to instruct the conscience and to strengthen the will in the ways of private, social and civic virtue.

One of the phases of religious training at the University consists in formal instruction, given during class periods that are an integral part of the curriculum. Since religious truths form a body of doctrine that can be taught and studied as exactly and scientifically as other branches of human knowledge, the courses in religion are conducted as regular lecture-courses with recitations, repetitions and examinations. The courses are so distributed over the four years of college that the entire field of Christian dogma and morals is adequately surveyed.

In addition to the courses in religion, obligatory for all Catholic students, the growth of a spirit of manly piety is encouraged by voluntary participation in various religious devotions and practices.

Holy Mass is celebrated daily in the Chapel; Benediction of the Blessed Sacrament, Devotions to the Sacred Heart and to our Blessed Lady and other liturgical functions are held at frequent intervals. All Catholic students are expected to approach the Sacraments at least once a month and to make the exercises of a three day retreat, which is held annually a short while after the opening of the school year.

No discrimination however in the admission of students is made on the grounds of religious belief. Students, not of the Catholic faith, are exempted from attending classes in religion and from participating in religious exercises conducted by the College, though they may attend them if they so desire.

STUDENT COUNSELING

To foster the religious development of the students, one of the Fathers of the Faculty is appointed as counsellor or adviser of the students to whose interests he devotes all his time. He is in a special sense the friend and adviser of the students not only in religious matters but also in their social duties and in other personal matters as each one may desire.

One of the questions of highest importance to every college graduate is the wise choice of a profession or vocation according to one's character, talents and attractions, both natural and supernatural. No student with a serious outlook on life will fail to determine well in advance of his graduation, the career which under God's providence will best assure his temporal success and his eternal happiness. In this matter the assistance of the Student Counsellor will prove of great value. His hours will be arranged to afford ample opportunity of conferring with him.

ADVISORY SYSTEM

In accordance with its policy of keeping the relations of students and faculty on a personal basis the University has organized an extensive advisory program. Once the student has enrolled at the University and after consultation with the proper authorities has decided upon his course, a member of the faculty is appointed whose duty it is to direct the student in his selection of courses, to assist him in overcoming any difficulties he may encounter in his academic

pursuits, and to counsel him on how he may use to best advantage his opportunities for preparing for his future career.

In addition there is an advisory committee appointed for each department. The student appears before this board at regular intervals to report the progress he is making, to receive instruction on methods of study and to discuss whatever steps must be taken to attain his ultimate objectives.

THE LIBRARY

The University Library, which is open from 9:00 A. M. to 10:00 P. M., offers to all students the services of a trained staff and the advantages of an up-to-date library. Besides its carefully selected collection of books the library receives 151 magazines and newspapers covering all fields of interest to the student.

In addition to the University collections the student has at his disposal the facilities of the Scranton Public Library and of the Law Library in the Court House, both of which are located within three blocks of the University. For courtesies, extended by these libraries to the out-of-town student without cost, the University Librarian should be consulted.

Having available the complete library resources of Scranton the student has opportunities to pursue his studies in a specialized library or in a general cultural atmosphere in the University Library. The Reading Room, where students will find a quiet place in which to study, has a seating capacity of 102 and is arranged and lighted for maximum service and comfort.

Each year, under the direction of the Librarian, the incoming Freshmen are instructed in the practical use of the Library. The students are familiarized with the card catalogue, the periodical indexes, and the essential reference sources in each subject field. During the year personal attention and guidance are given to the students by the Librarian so that the effective use of Library tools becomes a normal part of their education. Reading is encouraged by periodic exhibits and displays, featuring the books, magazines and pamphlets available for use.

VETERANS EDUCATION

The policy of the University is to afford veterans opportunities for study in accordance with their educational background, achievement and educational goals. Special guidance is provided to aid the veteran in adopting his program of study to his vocational objectives and to the completion of degree requirements.

Credit for courses and training completed while in military service will be recognized in partial fulfillment of degree requirements. The amount of credit, which is granted, will depend on many factors. In general credit will be extended in accordance with the suggestions outlined in the Handbook of Armed Service Courses, published by the American Council on Education. Credit will be offered as generously as is compatible with the best interests of the veteran and consistent with established academic standards.

The University has published a bulletin, entitled Education Program for Veterans; this booklet may be secured from the Registrar.

FRESHMAN WEEK

At the beginning of each academic year a special program known as Freshman Week is presented for the purpose of introducing new students to their studies and college life. During this period there are a series of aptitude and placement tests, lectures on study and library practice, and various conferences, all of which are directed to acquainting the new student with the activities and spirit of the school. In this way the College seeks to assist the student in adjusting himself properly to college life and to impress him with the educational opportunities the College offers its undergraduates.

OUT-OF-TOWN STUDENTS

(Housing)

Although the University of Scranton is not a boarding school, and, therefore, provides no dormitory accommodations on the campus, a number of private homes, furnishing board and lodging at a reasonable rate, are available in the main residential district a few minutes walk from the University. Students are permitted to room only at homes approved by the school authorities.

INSTITUTE OF INDUSTRIAL RELATIONS

On October 19, 1943, in Hazleton, Pa., the University of Scranton opened the first unit of its Institute of Industrial Relations. It was called Hazleton Labor College. Since then two other divisions have been added to the Institute viz.: the Shenandoah Institute of Industrial Relations in Shenandoah, Pa., which was inaugurated on March 15, 1945; and the Scranton Institute of Industrial Relations, which held its first assembly on May 2, 1945.

It is the purpose of all of the divisions of the Institute to provide opportunity for both employees and employers to acquire a sound philosophy in industrial relations, an acquaintance with the methodology of Social Science, a knowledge of the provisions of labor legislation and skill in written and vocal expression. It is hoped that by spreading a better understanding of the underlying principles and factual data of industrial relations, the groundwork will be laid for enduring industrial peace.

The instruction is conducted through two semesters each year of ten weeks each. The classes meet for two hours on two evenings each week.

The curriculum for each semester includes a course in each of four fields: Social Philosophy, Social and Economic Science, Labor Law and Legislation, and English. The courses are so arranged as to constitute an independent unit each semester and are conducted through a cycle of four years.

Lecturers include members of the regular faculty of the University, and specially engaged experts in specific fields. The regular courses are supplemented by occasional lectures by members of the Staffs of various Departments of the Federal Government, of the Commonwealth of Pennsylvania and of labor and employer organizations.

The student body includes international and district officers and board members of labor organizations, officials and committee members and rank and file members of locals; foremen, superintendents, personnel directors and professional persons.

General Regulations

DISCIPLINE

Students obviously enter the University with the sincere and earnest purpose of obtaining all the benefits of a college education. To enable them to do so, to secure the order necessary for the effectual pursuit of studies, to develop and strengthen character, and to promote gentlemanly deportment and polite manners, the University has drawn up certain rules and regulations governing student life. While the observance of these regulations is largely a matter of student morale, they are enforced unflinchingly whenever necessary. Matters of discipline are supervised by the Dean of Men.

While the University cannot be held responsible for the conduct of students outside the premises, unbecoming conduct either on or off the campus will constitute sufficient grounds for dismissal. Similarly insubordination, continued inapplication to studies or irregularity in attendance will warrant dismissal from the College. In general both within and outside the College students are expected to manifest the respect for order, morality, personal honor and the rights of others, which is the hallmark of a gentleman and the duty of a good citizen. Failure to do so will necessitate withdrawal from the College. The Administration reserves the right to dismiss a student at any time without any definite charge, if in its opinion he fails to use profitably the opportunities offered him at the University or to conduct himself according to its standards.

ATTENDANCE

The University considers regular attendance at all classes one of the most important obligations of the student. Every student is required to attend all the scheduled exercises of his class. A limited number of absences for grave and legitimate reasons is permitted. However, if a student is absent from more than ten per cent, but less than fifteen per cent of his classes, he will incur a conditional failure in the subject. If he is absent from fifteen per cent of the classes he will incur an absolute failure in the course. Each student should keep an account of his absences from class; failure to do so will not excuse him from the above penalties. When a student has been absent for a prolonged period, because of illness or some

equally compelling reason, the application of this rule may be modified by the Council on Studies upon the recommendation of the Dean.

Not only must attendance at class be regular but it must also be punctual. Late-comers will not be admitted to class and will be recorded with an absence.

EXAMINATIONS AND GRADES

Grades are ascertained quarterly from the professors. Twice each semester in each course there is given a mark made up on the basis of the student's homework, recitation in class, and tests. In the event that a student is deficient in any subject at the quarterly marking periods, notification of the fact will be sent to the parent or guardian.

At the close of each semester comprehensive written examinations in each subject are held covering all the matter studied during the semester; supplementary oral examinations may also be required. To be eligible to take a semester examination, a student must have attained an average of "D" in the combination of the two quarterly marks and must not have exceeded the limit of absences. Absence from a semester examination counts as a condition.

The semester's average is obtained by adding together the marks for the two quarters and the mark for the semester examination, and dividing by three. To secure credit for a subject, not only the semester average, but also the mark in the examination must be at least "D."

The system of grading in use is based on the letters A, B, C, D, E, F. These letters are evaluated according to the following scale:

A—93-100—Excellent .....3 quality points for each credit hour
B—85-92—Good .....2 quality points for each credit hour
C—77-84—Fair .....1 quality point for each credit hour
D—70-76—Passing .....0 quality point for each credit hour
E—60-69—Condition
F—Below 60—Failure

DEFICIENCIES

Any grade between 60 and 69 will constitute a condition. A condition is also incurred by being absent from ten per cent of the classes in any subject, or by not passing a semester examination

or by being absent from the same. A student whose quarterly marks in any subject average between 60-70 per cent is permitted to take a condition examination. Likewise, a student who has been debarred from the semester examination because of absences, is permitted to take a condition examination, if his quarterly marks average 60 per cent.

A condition examination will be given in each subject after the regular semester examinations. The highest mark to be attained in such an examination is "D." The fee for any condition examination is $5.00. If the student is unable to pass the examination, he incurs a failure; if he neglects to take a condition examination at the appointed time, before another semester has elapsed, the condition automatically becomes a failure.

A student whose quarterly grades in any subject average below 60 incurs a failure. A student who is absent from fifteen per cent of the classes in a subject incurs a failure. Failures must be removed by the repetition of the subject in regular course. The highest grade which may be earned by repeating a course is C. A course may be repeated but once.

A student who has three failures at the end of a semester shall be dismissed.

INCOMPLETE COURSES

If a course has not been completed because of illness or some other serious reason, approved by the Council on Studies, the course will be marked "I" (Incomplete).

QUALITY OF WORK

During the four-year course a student must earn the total of one hundred and thirty quality points at least. Quality points are awarded as follows: for every grade of "A" three quality points for each semester hour are alloted; for every grade of "B" two quality points for each semester hour; and for every grade of "C" one quality point for each semester hour. A grade average of "C" therefore is required for graduation.

The Grade Point ratio of a student is determined by dividing the total number of quality points earned by the total number of semester hours required for graduation. If the ratio falls below 1.0,

the student may be warned, placed on probation, advised to withdraw, or dismissed.

No student will be permitted to enter Senior Year who has not removed all deficiencies or who has not earned the necessary number of quality points. Any member of the Senior Class who incurs one failure or two conditions shall cease immediately to be a candidate for a degree at the next commencement.

HONOR STUDENTS

To be eligible for honors a student must carry the full program of his class. All semester hours in which a student receives a grade are counted in the determination of honors. In order to be listed as honor students a grade of B or more must be earned in all subjects.

VOLUNTARY WITHDRAWAL

A student who withdraws voluntarily from the University is entitled to honorable dismissal if he is in good standing and all financial indebtedness settled. No refund of tuition will be made after two weeks of the quarter term. This regulation does not apply to students entering the military service who will be granted a refund, determined in accordance with their actual attendance.

Student Expenses

Unless it is explicitly stated otherwise, all fees are for one semester and are payable in advance before the first day of class. Approval for deferred payments must be secured from the Treasurer before registration: a fee of $5.00 per semester is charged for the service. Deferred payments are made by paying $50.00 at the beginning of the semester and the balance in payments due the first of two successive months.

The tuition fee of $100.00 per semester allows the student to carry a maximum of eighteen semester hours of credit. Extra courses must be paid for at the rate of $8.00 per semester credit. Students who carry ten or more credit hours must pay all fees in full.

No deduction will be made for absence or withdrawal two weeks after the beginning of the semester except in the case of students called for military service. No student shall be permitted to take semester examinations until all bills for the current semester have been paid. No student shall be permitted to receive any degree, certificate or transcript of record, until his financial accounts with the University have been satisfactorily settled.

Tuition	$100.00
University fees	25.00
Laboratory fee for each science course	10.00
Breakage fee for each science course per year	5.00
Engineering laboratory fee	1.00
Matriculation fee, payable once	5.00
Deferred payment fee	5.00
Late registration fee	5.00
Extra courses, per semester credit	8.00
Transcript of record	2.00
Condition examination fee, each subject	5.00
Graduation	30.00
Estimated cost of books per year	40.00

Requirements for Admission

The administration of the requirements for admission to the University of Scranton is in the hands of the Chairman of the Board of Admissions. The executive details are administered by the Registrar, who will gladly furnish application blanks and information to prospective candidates, parents and Secondary Schools. It will be to the candidate's advantage to make formal application *early in the final year of his secondary school studies.* At the very latest application for admission should be made at least a full week before the start of the semester.

In the acceptance of candidates final decision rests with the Board of Admissions. Candidates are advised that in determining the admission status of an applicant the Board will consider not only the credits and mental proficiency of the candidate but also such factors as are adjudged pertinent in evaluating the applicant's qualifications in terms of the standards and traditions of the College. The Board of Admissions will give preference to those applicants whose mental and personal qualifications give warrant that they will use conscientiously and profitably the educational advantages offered by the University.

ADMISSION BY CUMULATIVE RECORD

The information supplied by adequately maintained cumulative student records will be carefully considered in connection with any application for admission. Such records are desired whenever they are available, and, in the case of specially recommended candidates, may, at the discretion of the board of admissions, be accepted in place of formal entrance examinations.

To be considered for this purpose such records must (1) cover at least the last three years of the candidate's school life, (2) provide information concerning the candidate's intellectual capacity, physical and mental health, personal characteristics, habits, attitudes, interests and talents, (3) contain a complete summary of the applicant's official record of final school grades and of the results of any examinations taken under the auspices of a competent examining agency, (4) include the accurate record of the results of comparable

(objective) measures of intellectual capacity and of achievement in all important subjects studied. Data obtained from all tests should be interpreted, whenever possible, in authenticated comparable terms, such as well established public school percentiles or official independent school percentiles.

The Board of Admissions will be glad to examine cumulative records at the end of the junior year of the secondary school course of any candidate who wishes an early decision regarding the probability of his admission to the college after the completion of his preparatory work.

SCHOLASTIC CREDENTIALS

Candidates for admission to the regular freshman class must present: first, a certificate of graduation from a senior high school accredited by the State Department of Education of Pennsylvania or by the Association of Colleges and Secondary Schools of the Middle States; and, secondly, a detailed record of their high school work. This record must represent either sixteen units distributed over four full years, if the applicant comes from a four-year high school, or twelve units, if he comes from a senior high school. Each unit represents the study of a high school subject for the duration of a school year of at least thirty-six weeks, on a basis of four to five recitation periods a week. These units must cover the prescribed subjects, which are listed below as requirements for admission to the various curricula.

The candidate's record must also be accompanied by a recommendation from his Principal that the candidate is qualified for higher studies. Candidates who have been graduated in the first three quintiles of their class are required to take the standard placement tests during Freshman Week. Candidates who were graduated in the fourth and fifth quintile must take entrance tests; and the admission of such students will be determined by their achievement in these examinations.

ADVANCED STANDING

The institution honors credits toward advanced standing from other colleges, provided a grade of "C" or its equivalent is presented. No one, however, will be admitted to a standing higher than that

represented by a completion of the junior year. Students entering from other institutions shall be required to make up the prescribed subjects of study in the course which they choose to pursue.

The candidate must present a letter of honorable dismissal and a certificate signed by the proper college authority, showing the subjects studied, the number of semester hours given to each subject, and the grade attained. In case the character of a student's work in any subject is such as to create doubt as to the quality of that which preceded, the University explicitly reserves the right to revoke any credit assigned on credentials and to exact examination in the same subject.

UNIT REQUIREMENTS FOR ADMISSION

To enroll in any one of the several courses offered in the curriculum a total of sixteen high school units must be presented. The term, "unit," is understood to represent a course of from four to five hours weekly throughout an academic year of secondary school. Candidates for admission may submit entrance units in the following subjects:

American History	1	Italian	2
Ancient History	1	Spanish	2
Mediaeval History	1	Algebra	2
Modern History	1	Commercial Mathematics	1
Civics	1	Plane Geometry	1
Economics	1	Solid Geometry	1
Problems of Democracy	1	Trigonometry	1
Social Science	1	Mechanical Drawing	1
English	4	Business Subjects	2
Greek	3	General Science	1
Latin	4	Biology	1
French	2	Chemistry	1
German	2	Physics	1

COURSE REQUIREMENTS

Of the total of sixteen units, required for admission, a specified number must be offered in prescribed subjects, which vary from course to course. The following tables summarize the required and elective units to be offered by candidates for the various degrees:

Bachelor of Arts

Algebra	1
English	4
History	1
Latin	2 to 4
*Modern Language	2
Plane Geometry	1
Science	1
Other Subjects	2 to 4
	16

Bachelor of Science
(*Pre-Medical: Pre-Dental: Science Major*)

Algebra	1
English	4
History	1
*Modern Language	2
Plane Geometry	1
Science	1
Other Subjects	6
	16

Bachelor of Science
(*Education: History: Social Science*)

Algebra	1
English	4
History	1
*Modern Language	2
Plane Geometry	1
Science	1
Other Subjects	6
	16

Bachelor of Science
(*Major: Business Administration*)

Mathematics	2
English	4
History	1
*Modern Language	2
Science	1
Other Subjects	6
	16

PRE-ENGINEERING

Algebra	2
English	4
History	1
Plane Geometry	1
Science	1
Other Subjects	7
	16

* Candidates without secondary school credit in a modern foreign language must register in one of the elementary courses and continue their study of the language during Sophomore Year. At the end of Sophomore Year a comprehensive examination will be given. Those who fail to satisfy the reading requirements must continue their study of the language for another year.

Students with two years of high school preparation in the same modern language either may continue it or begin the study of another. No student, however, may take the elementary course in any language in which he has had two years of secondary school preparation.

German is the prescribed language for candidates for the Bachelor of Science Degree in Chemistry and Physics.

College Degrees

The College of Arts and Sciences at the University of Scranton awards two academic degrees, Bachelor of Arts and Bachelor of Science. The various courses of study are arranged in two main groups, each one leading to one of these degrees. Within the Bachelor of Arts group two sets of courses are to be found, one leading to a Bachelor of Arts degree with honors, the other to an unqualified Bachelor of Arts degree. Within the Bachelor of Science group various subdivisions are found depending on whether the student is majoring in Biology, Chemistry, Mathematics, Physics, Education, History or Social Sciences.

BACHELOR OF ARTS HONORS DEGREE

The course of studies terminating in a Bachelor of Arts degree with honors is reserved to students, who in the judgment of the College authorities are endowed with more than ordinary talent and are capable of the intensive work which the course requires.

All students in this course are required to take the courses in Latin and Greek literature. A minimum of two years of college Greek will be required of students, who have made preliminary studies in this language during two or three years of high school. For those entering without these preliminary studies in Greek there will be an intensive course of three years' duration.

To be qualified for this degree a student must earn an average of eighty or higher in his major courses and an average of seventy-five in his minor courses. Each student will be expected to do original and intensive work in the field they elect for special study in their Junior and Senior years. Grades are determined on the basis of class recitations, class tests, quarterly examinations and semester comprehensive examinations. The scholastic success of the student is noted in his degree by the distinction of honors, honors *cum laude,* honors *magna cum laude* and honors *summa cum laude.* Students who fail to attain these grades may be recommended for a degree without honors.

The University of Scranton considers that this course embodies the best in the Jesuit system of studies. Representative of the

classical principles of the Ratio Studiorum and well adapted to bring to full maturity the intellectual, moral and physical powers of the student, this course through an intensive study of the humanities aims to inculcate habits of mental industry and to develop initiative and individuality of thought and expression to a point where the student gives abundant promise of leadership in his future career.

BACHELOR OF ARTS DEGREE

The requirements for this degree are similar to those of the A. B. Honors degree with the exception that the courses in Greek literature may be dropped. This course is built upon the same unity of literature and philosophy and joins breadth of culture with adequate specialization. The grade required in all courses is D and a total of one hundred and thirty-two quality points must be earned by the student.

PRE-PROFESSIONAL STUDIES IN ARTS CURRICULUM

To prepare students for entry into professional schools after graduation special programs of studies are offered in the Arts curriculum to meet the requirements of these institutions. Through these programs students are able to satisfy amply all the requirements for admittance with full standing into Medical, Dental or Law schools. It is strongly recommended that having fulfilled the requirements of these professional schools students devote whatever time remains for elective studies to the more cultural studies of the arts courses.

BACHELOR OF SCIENCE DEGREE

The courses which lead to the degree of Bachelor of Science fall into three general groups. The pure science courses are designed for students who wish to major in the fields of biology, chemistry, physics or mathematics or who wish to fulfill the requirements for entrance into medical or dental school. The second group of courses enables the student, lacking the qualifications for the Arts course, to major in the fields of education, history or the social sciences.

The third group of courses leads to the degree of Bachelor of Science in Business Administration with a major in accounting. In all these courses certain general cultural subjects such as English and Philosophy are prescribed. These fields of study afford a student,

who has not completed the prerequisites for the A. B. course in high school, an opportunity to pursue a course of studies which will fit them for graduate work in law, education, business and government.

DEGREE REQUIREMENTS

To receive the College degree a student is required to complete successfully all prescribed courses as well as an amount of work equivalent to at least one hundred and thirty-two credits. A credit or semester hour represents one hour a week for one semester except when a class period is conducted in the style of a conference or seminar, in which case fewer credits are granted.. Two hours of laboratory work are counted as the equivalent of one lecture period.

PRESCRIBED COURSES

Certain courses are prescribed for all the curricula leading to the bachelor's degree. These include the Freshman and Sophomore courses in English, Modern Language and Mathematics and the sequence of philosophy courses comprising Logic, Epistemology, Cosmology, Metaphysics, Ethics, Psychology and Natural Theology. Moreover in all the curricula at least one year of History and one year of either Chemistry, Biology, or Physics is required. In addition in each of the various curricula certain courses are prescribed as necessary for the minimum requirement for the particular degree awarded upon successful completion of the curriculum. These prescribed courses are outlined in detail in the summaries contained in the following pages. Catholic students are also required to pursue a prescribed course in religion in each of the four years.

FIELD OF CONCENTRATION

Before the close of his sophomore year each student with the assistance of his faculty advisor and the approval of the Dean must determine his major elective or field of concentration for the ensuing two years. The field of concentration for students who wish to major in science or to prepare for medical school is normally determined by the course they choose upon entering Freshman year.

In determining the major elective the decisive factor is not the student's desires, but his prospective vocation in life. Consequently what is elective with the student is not so much his studies, especially

in details, but rather the career which he wishes to follow. In all cases it is clearly understood that, no matter what a student's major may be, he is still obliged to follow the prescribed courses of philosophy and science in Junior and Senior years.

A major study comprises: (1) twenty-one semester hours in the same subject together with twelve semester hours in subjects so closely related as to form a well united field of study; (2) assigned reading or investigation in the designated subject; (3) during the senior year candidates will be obliged to write a thesis of 3,500 words on some portion of their major approved by the head of the department, and (4) to pass a comprehensive examination in this field.

The departments of study in which the field of concentration is to be chosen are:

Business Administration	History
Biology	Pre-Legal Studies
Chemistry	Mathematics
Classical Languages	Philosophy
Education	Physics
English	Romance Languages
German	Social Studies

After the prescribed courses for Junior and Senior have been provided for and the field of concentration has been chosen, the remaining hours may be made up from other subjects at the discretion of the faculty advisor with the approval of the Dean. The elective subjects will be so ordered that at the time of graduation the student will be well equipped to continue with graduate studies in his chosen field. The recommendation grade for graduate work is C in the cumulative college record.

HONORS

The degree of Bachelor of Arts or of Bachelor of Science shall be conferred with distinction under the following rules. Students who have completed a minimum of one hundred hours in the University of Scranton are eligible for general honors. Those who earn an average of at least two and one-half quality points a semester hour are recommended for a degree *magna cum laude*. Those who earn an average of three quality points a semester hour are recommended for a degree of *summa cum laude*.

MAJOR ELECTIVE GROUPS

Group I: Biology
- Comparative Anatomy
- Embryology
- Histology
- Genetics
- Bacteriology
- Physiology
- Microtechnique

Group II: Chemistry
- Quantitative Analysis
- Organic Chemistry
- Physical Chemistry
- Physiological Chemistry
- Qualitative Organic Analysis
- Advanced Bio-Chemistry
- Advanced Analytical Methods

Group III: Classics
- Latin
  - Cicero
  - Lucretius
  - St. Augustine
- Greek
  - Greek Tragedy
  - Plato
  - Aristotle
  - New Testament

Group IV: Business Administration
- Principles of Economics
- Business Law
- Auditing
- Cost Accounting
- Money and Banking
- Corporation Finance
- Federal Taxation
- Investments
- Insurance
- Advertising
- Marketing
- Statistics
- C.P.A. Review

Group V: English
- American Literature
- Shakespeare and the Elizabethans
- Eighteenth Century Literature
- Romantic Literature
- History of the English Novel
- Modern Literature
- Creative Writing

Group VI: History
- Ancient History
- Modern European History
- American Diplomatic History
- American Constitutional History
- Latin-American History

Group VII: Social Science
- Social Problems and Agencies
- The Family
- Urban and Rural Sociology
- Criminology
- Labor Problems
- American Government
- Political Science
- Social Origins
- History of Social Thought

Group VIII: Mathematics
- Differential Calculus
- Integral Calculus
- Advanced Algebra
- Advanced Calculus
- Differential Equations
- Vector Analysis
- Advanced Mathematical Analysis
- Statistical Analysis

Group VIII: Modern Languages
- French
  - French Novel
  - French Drama
  - French Oratory
- German
  - Advanced Literature and Composition
  - Scientific German
  - History of German Literature
- Spanish
  - Advanced Studies in Literature and Composition
  - Commercial Spanish
  - Modern Spanish

Group IX: Philosophy
- History of Ancient Philosophy
- History of Medieval Philosophy
- History of Modern Thought
- History of Ethics

Group X: Physics
- Light and Optics
- Heat and Thermodynamics
- Mechanics
- Electricity and Magnetism
- Radio Tubes and Circuits
- Sound
- Modern Physics

Group XI: Education
- Introduction to Education
- History of Education
- Educational Psychology
- Philosophy of Education
- General Methods
- Observation and Practice

COURSES REQUIRED FOR DEGREES

BACHELOR OF ARTS HONORS

FRESHMAN I

	Credits
English 1, 3	4
Greek* 3	4
Latin 1	4
Mathematics 5	4
Modern Language	3
Religion 1	1
	20

FRESHMAN II

	Credits
English 2, 4	4
Greek 4	4
Latin 2	4
Mathematics 6	4
Modern Language	3
Religion 2	1
	20

SOPHOMORE I

	Credits
English 21	4
Greek 21	3
History 1	3
Latin 21	3
Modern Language	3
Religion 21	1
Social Science 21	3
	20

SOPHOMORE II

	Credits
English 22	3
Greek 22	3
History 2	3
Latin 22	3
Modern Language	3
Philosophy 22, 23	5
Religion 22	1
	21

JUNIOR I

	Credits
Biology 1	4
Philosophy 53, 54	5
Religion 51	1
Electives	9
	19

JUNIOR II

	Credits
Biology 2	4
Philosophy 56	4
Psychology 51	4
Religion 52	1
Electives	6
	19

SENIOR I

	Credits
Philosophy 57	4
Psychology 52	4
Religion 61	1
Chem. 1 or Physics 1	4
Electives	6
	19

SENIOR II

	Credits
Chem. 2 or Physics 2	4
Religion 62	1
Electives	9
Thesis	
	14

* A course in Greek Literature in Junior Year is required of students in the Honors course, who offer no Greek for admission.

** Elective courses, such as Education, English, History, Foreign Languages, Mathematics, Natural and Social Sciences may be chosen in Junior and Senior Years.

BACHELOR OF ARTS HONORS

Pre-Medical

Freshman I

	Credits
Biology 1	4
English 1, 3	4
Greek* 3	4
Latin 1	4
Mathematics 5	4
Modern Language	3
Religion 1	1
	24

Freshman II

	Credits
Biology 2	4
English 2, 4	4
Greek 4	4
Latin 2	4
Mathematics 6	4
Modern Language	3
Religion 2	1
	24

Sophomore I

	Credits
Chemistry 1	5
English 21	4
Greek 21	3
Latin 21	3
Modern Language	3
Religion 21	1
Social Science 21	3
	22

Sophomore II

	Credits
Chemistry 2	5
English 22	3
Greek 22	3
Latin 22	3
Modern Language	3
Philosophy 22, 23	5
Religion 22	1
	23

Junior I

	Credits
Biology 21	4
Chemistry 51	5
History 1	3
Philosophy 53, 54	5
Religion 51	1
	18

Junior II

	Credits
Biology 22	4
Chemistry 52	5
History 2	3
Philosophy 56	4
Psychology 51	4
Religion 52	1
	22

Senior I

	Credits
Biology 52	4
Chemistry 55	4
Philosophy 57	4
Physics 1	4
Psychology 52	4
Religion 61	1
	21

Senior II

	Credits
Biology 54	4
Chemistry 56	4
Physics 2	4
Religion 62	1
Thesis	
	13

* Pre-Medical students who do not wish to take the honors course may drop Greek.

BACHELOR OF ARTS

Pre-Legal

FRESHMAN I

	Credits
English 1, 3	4
History 1	3
Latin 1	4
Mathematics 5	4
Modern Language	3
Religion 1	1
	19

FRESHMAN II

	Credits
English 2, 4	4
History 2	3
Latin 2	4
Mathematics 6	4
Modern Language	3
Religion 2	1
	19

SOPHOMORE I

	Credits
English 21	4
History 3	3
Latin 21	3
Modern Language	3
Religion 21	1
Social Science 21	3
	17

SOPHOMORE II

	Credits
English 22	3
History 4	3
Latin 22	3
Modern Language	3
Philosophy 22, 23	5
Religion 22	1
	18

JUNIOR I

	Credits
Biology 1	4
Philosophy 53, 54	5
Religion 51	1
Electives	9
	19

JUNIOR II

	Credits
Biology 2	4
Philosophy 56	4
Psychology 51	4
Religion 52	1
Electives	6
	19

SENIOR I

	Credits
Philosophy 57	4
Psychology 52	4
Chem. 1 or Physics 1	4
Religion 61	1
Electives	6
	19

SENIOR II

	Credits
Chem. 1 or Physics 1	4
Religion 62	1
Electives	9
Thesis	
	14

BACHELOR OF SCIENCE

Major in Biology—Pre-Medical Sciences

Freshman I

	Credits
Biology 1	4
Chemistry 1	5
English 1, 3	4
Mathematics 5	4
Modern Language	3
Religion 1	1
	21

Freshman II

	Credits
Biology 2	4
Chemistry 2	5
English 2, 4	4
Mathematics 6	4
Modern Language	3
Religion 2	1
	21

Sophomore I

	Credits
Biology 21	4
Chemistry 21	4
English 21	4
History 1	3
Modern Language	3
Religion 21	1
	19

Sophomore II

	Credits
Biology 22	4
English 22	3
History 2	3
Modern Language	3
Philosophy 22, 23	5
Religion 22	1
	19

Junior I

	Credits
Biology 52	4
Chemistry 51	5
Philosophy 53, 54	5
Physics 1	4
Religion 51	1
	19

Junior II

	Credits
Biology 54	4
Chemistry 52	5
Philosophy 56	4
Physics 2	4
Psychology 51	4
Religion 52	1
	22

Senior I

	Credits
Biology 55	4
Chemistry 53	4
Philosophy 57	4
Psychology 52	4
Religion 61	1
Social Science 21	3
	20

Senior II

	Credits
Biology 56	4
Chemistry 54	4
Religion 62	1
Electives	6
Thesis	
	15

BACHELOR OF SCIENCE

Chemistry Major

FRESHMAN I

	Credits
Biology 1	4
Chemistry 1	5
English 1, 3	4
German	3
Mathematics 5	4
Religion 1	1
	21

FRESHMAN II

	Credits
Biology 2	4
Chemistry 2	5
English 2, 4	4
German	3
Mathematics 6	4
Religion 2	1
	21

SOPHOMORE I

	Credits
Chemistry 21	4
English 21	4
German	3
Mathematics 21	3
Physics 1	4
Religion 21	1
	19

SOPHOMORE II

	Credits
English 22	3
German	3
Engineering 29	2
Mathematics 22	3
Philosophy 22, 23	5
Physics 2	4
Religion 22	1
	21

JUNIOR I

	Credits
Chemistry 51	5
Chemistry 55	4
History 1	3
Physics 22	3
Philosophy 53, 54	5
Religion 51	1
	21

JUNIOR II

	Credits
Religion 52	1
Chemistry 52	5
Chemistry 56	4
Philosophy 56	4
History 2	3
Psychology 51	4
	21

SENIOR I

	Credits
Chemistry 61	4
Physics 63	3
Philosophy 57	4
Psychology 52	4
Religion 61	1
Electives	6
	22

SENIOR II

	Credits
Physics 64	3
Religion 62	1
Electives	9
	13

BACHELOR OF SCIENCE

Major in Physics

Freshman I

	Credits
Chemistry 1	5
English 1, 3	4
German	3
Mathematics 5	4
Physics 1	4
Religion 1	1
	21

Freshman II

	Credits
Chemistry 2	5
English 2, 4	4
German	3
Mathematics 6	4
Physics 2	4
Religion 2	1
	21

Sophomore I

	Credits
Chemistry 21	4
English 21	4
German	3
Mathematics 21	3
Physics 21	4
English 21	4
	19

Sophomore II

	Credits
English 22	3
German	3
Mathematics 22	3
Philosophy 22, 23	5
Physics 22	3
Religion 22	1
	18

Junior I

	Credits
History 1	3
Mathematics 52	3
Philosophy 53, 54	5
Physics 51	3
Physics 53	3
Religion 51	1
	18

Junior II

	Credits
History 2	3
Mathematics 53	3
Philosophy 56	4
Physics 52	3
Physics 54	3
Psychology 51	4
Religion 52	1
	21

Senior I

	Credits
Physics 61	4
Physics 57	4
Psychology 52	4
Religion 61	1
Electives	6
	19

Senior II

	Credits
Physics 62	4
Religion 62	1
Electives	9
Thesis	
	14

BACHELOR OF SCIENCE

In Business Administration

FRESHMAN I

	Credits
Business 1	4
Business 3	3
English 1, 3	4
History 1	3
Modern Language	3
Religion 1	1
	18

SOPHOMORE I

	Credits
Biology 3	3
Business 21	4
Business 23	3
English 21	4
Modern Language	3
Religion 21	1
	18

JUNIOR I

	Credits
Business 51	4
Business 71	3
Philosophy 53, 54	5
Religion 51	1
Social Science 23	3
Electives	3
	19

SENIOR I

	Credits
Business 53	4
Business 73	3
Philosophy 57	4
Psychology 52	4
Religion 61	1
Elective	3
	19

FRESHMAN II

	Credits
Business 2	4
Business 4	3
English 2, 4	4
History 2	3
Modern Language	3
Religion 2	1
	18

SOPHOMORE II

	Credits
Biology 4	3
Business 22	4
English 22	3
Modern Language	3
Philosophy 22, 23	5
Religion 22	1
	19

JUNIOR II

	Credits
Business 52	4
Business 72	3
Philosophy 56	4
Psychology 51	4
Religion 52	1
Social Science 24	3
Electives	3
	22

SENIOR II

	Credits
Business 74	3
Business 54	4
Religion 62	1
Electives	6
Thesis	
	14

BACHELOR OF SCIENCE

In Education

Freshman I

	Credits
Biology 3	3
English 1, 3	4
History 1	3
Mathematics 5	4
Modern Language	3
Religion 1	1
	18

Freshman II

	Credits
Biology 4	3
English 2, 4	4
History 2	3
Mathematics 6	4
Modern Language	3
Religion 2	1
	18

Sophomore I

	Credits
Education 51	3
English 21	4
History 3	3
Modern Language	3
Religion 21	1
Social Science 21	3
	17

Sophomore II

	Credits
English 22	3
History 4	3
Modern Language	3
Philosophy 22, 23	5
Religion 22	1
Social Science 22	3
	18

Junior I

	Credits
Education 52	3
English	3
Philosophy 53, 54	5
Religion 51	1
Electives	6
	18

Junior II

	Credits
Education 53	3
Philosophy 56	4
Psychology 51	4
Religion 52	1
Electives	6
	18

Senior I

	Credits
Education 54	3
Philosophy 57	4
Psychology 52	4
Religion 61	1
Electives	6
	18

Senior II

	Credits
Education 57	6
Religion 62	1
Electives	6
Thesis	
	13

BACHELOR OF SCIENCE

In History and Social Studies

FRESHMAN I

	Credits
Biology 3	3
English 1, 3	4
History 1	3
Mathematics 5	4
Modern Language	3
Religion 1	1
	18

FRESHMAN I

	Credits
Biology 4	3
English 2, 4	4
History 2	3
Mathematics 6	4
Modern Language	3
Religion 2	1
	18

SOPHOMORE I

	Credits
English 21	4
History 3	3
Modern Language	3
Religion 21	1
Social Science 21	3
Social Science 55	3
	17

SOPHOMORE I

	Credits
English 22	3
History 4	3
Modern Language	3
Philosophy 22, 23	5
English 22	3
Social Science 22	3
	18

JUNIOR I

	Credits
English	3
Philosophy 53, 54	5
Religion 51	1
Social Science 23	3
Electives	6
	18

JUNIOR II

	Credits
Philosophy 56	4
Psychology 51	4
Religion 52	1
Social Science 24	3
Electives	6
	18

SENIOR I

	Credits
Philosophy 57	4
Psychology 52	4
Religion 61	1
Electives	6
	15

SENIOR II

	Credits
Religion 62	1
Electives	12
Thesis	
	13

PRE-DENTAL COURSE

Freshman I

	Credits
Biology 1	4
Chemistry 1	5
English 1, 3	4
Mathematics 5	4
Modern Language	3
Religion 1	1
	21

Freshman II

	Credits
Biology 2	4
Chemistry 2	5
English 1, 3	4
Mathematics 6	4
Modern Language	3
Religion 1	1
	21

Sophomore I

	Credits
Biology 21	4
Chemistry 51	5
English 21	4
Modern Language	3
Physics 1	4
Religion 21	1
	21

Sophomore II

	Credits
Biology 22	4
Chemistry 52	5
English 22	3
Modern Language	3
Physics 2	4
Religion 22	1
	21

PRE-ENGINEERING COURSE

Freshman I

	Credits
Engineering 1	4
Chemistry 1	5
English 1, 3	4
Engineering 3	2
History 1	3
Physics 1	4
Religion 1	1
	23

Freshman II

	Credits
Chemistry 2	5
Engineering 2	4
Engineering 4	2
English 2, 4	4
History 2	3
Physics 2	4
Religion 2	1
	23

Sophomore I

	Credits
Chemistry 21	4
Engineering 21	3
Engineering 23	3
Engineering 25	2
English 21	4
Mathematics 21	3
Religion 21	1
	20

Sophomore II

	Credits
Engineering 22	3
Engineering 24	2
Engineering 26	2
Engineering 29	2
Engineering 28	4
English 22	3
Mathematics 22	3
Religion 22	1
	20

Courses of Instruction

DEPARTMENT OF ART

1 & 2. *Art and Lettering* — 8 *credits*

Principles of drawing and composition, freehand drawing, perspective, media, instrument drawing, posters and show cards, reproduction.

Two semesters — Evening

3 & 4. *Mechanical Drawing* — 6 *credits*

Use of drawing instruments, lettering, orthographic projection, perspective drawing, dimensioning, sectional representation, preparation of drawings and tracings; general and detail drawings of machine parts.

Two semesters — Evening

5 & 6. *Art Appreciation* — 6 *credits*

A preliminary and fundamental course on the appreciation of the visual arts connected with a survey of their history from ancient Egypt to the Renaissance.

Two semesters

21 & 22. *Art Appreciation* — 6 *credits*

A continuation of art appreciation devoted to a study of the history and to an appreciation of the visual arts from the Renaissance to the present.

Two semesters

51. *Workshop in the Drama* — 4 *credits*

This course is designed to be a practical study of the various problems of stage craft encountered in adapting and producing a play. Stages, scenery and costumes will be designed and fabricated in scale models by the students.

Spring semester — Evening

DEPARTMENT OF BIOLOGY

Courses in the Department of Biology are designed to achieve the following objectives: 1. To further the general education of the individual by presenting the fundamental facts and concepts which are needed for an understanding of the living world and his relations to it. 2. To train the individual in analytical thinking and to acquaint him with the operation of the "scientific method." 3. To develop habits of precision, curiosity, critical evaluation, neatness and patience together with skill in laboratory techniques. 4. To prepare students for professional schools such as those of Medicine, Dentistry and allied fields or for advanced study or work in other biological fields.

COURSES

1 & 2. *General Biology* — 8 *credits*

This course is a comprehensive survey of all the types of living organisms from the standpoint of their structures, function, development and relationships.

Representatives of the important plant and animal phyla are studied from these aspects with major emphasis on the animal groups. The course also deals with general biological principles such as the nature of life, the organization of living beings, the problems of heredity, development and evolution. It is a prerequisite for all other courses given in the department unless the contrary is specifically indicated. 2 hours lecture and 4 hours lab.
Two semesters

3 & 4. *Educational Biology* — *6 credits*

This is a cultural course in which general biological principles and problems are emphasized especially as they affect the human race and in relation to human problems. It covers, in less detail, the same subject matter as the preceding course and aims at the inculcation of a more generalized knowledge of the major biological principles. Demonstrations are used extensively to supplement laboratory work. 2 hours lecture and 2 hours lab.
Two semesters

7. *Anatomy and Physiology* — *3 credits*

This is a non-technical presentation of the fundamentals of human anatomy and physiology in order to develop a correct understanding of the structure and function of the human body. There is no formal laboratory work or dissection but demonstrations, charts, models and other visual aids are used extensively as supplementary material. 3 hours lecture and demonstration.
One semester — Evening

8. *Introduction to Public Health* — *3 credits*

This course is designed to give an understanding of the nature of disease and the principles of disease prevention. It considers the more common communicable diseases as to cause, mode of transmission, methods of control and prevention. The essential facts of immunity, control of food and water supply, sewage disposal, disinfection and problems of public health administration are also included. 3 hours lecture and demonstration.
One semester — Evening

9. *Human Heredity* — *3 credits*

This course presents the basic principles and concepts of heredity, stressing their practical application to the problems of human inheritance. 3 hours lecture and demonstration.
One semester — Evening

21 & 22. *Comparative Vertebrate Anatomy* — *8 credits*

The gross anatomy and phylogeny of the organ systems in the vertebrate organism are considered with special emphasis upon the mammalian type. Insofar as possible structure is correlated with function again with special reference to mammalian physiology. Type animals of the major vertebrate classes are studied

in the laboratory with dissection confined to the shark, necturus, turtle, pigeon and cat. 2 hours lecture and 4 hours lab.
Two semesters

50. *General Botany* — *3 credits*

This course deals with the four major subdivisions of the plant kingdom, studying representative types from the standpoint of structure and function and the illustration of biological principles. 2 hours lecture and 2 hours lab.
One semester

51. *General Zoology* — *4 credits*

In this course a more detailed study is made of the animal organism with the work confined almost entirely to representatives of the invertebrate phyla. Detailed studies are made of structure and relationships. 2 hours lecture and 4 hours lab.
One semester

52. *Histology* — *4 credits*

This course is concerned primarily with the microscopic structure and the functioning relations of vertebrate tissues and organ systems with most attention devoted to the mammal. 2 hours lecture and 4 hours lab.
One semester

53. *Microtechnique* — *4 credits*

A course of training in the preparation of animal and plant tissues for microscopic examination. General methods of preparing histological specimens are covered in detail with special techniques included as time and interest permit. 1 hour lecture and 6 hours lab.
One semester

54. *Embryology* — *4 credits*

A large part of the course is devoted to the early stages of development where gametogenesis, fertilization, cleavage, gastrulation and the formation of germ layers are treated from a comparative viewpoint. The development of general body form, of organs and of organ systems is then studied largely as it occurs in frog, chick and mammal. 2 hours lecture and 4 hours lab.
One semester

55. *Genetics* — *4 credits*

The purpose of this course is to give the student a fundamental knowledge of the basic principles and modern theories of heredity as developed by experimental, biometrical and cytological methods. Consideration is given to the practical application of the laws governing inheritance in the fields of plant and animal breeding and human heredity. 2 hours lecture and 4 hours lab.
One semester

56. *General Physiology* *4 credits*

This course deals with the basic principles and concepts underlying the functioning of the animal organism. The functions of the major organ systems are studied with special attention given to the correlation and integration of these process in the organism. 2 hours lecture and 4 hours lab. Pre-requisites: Biol. 21 & 22. Corequisites: General Physics and Org. Chem.
One semester

57. *Introductory Bacteriology* *4 credits*

Presented from the biological rather than from the strictly medical standpoint, this course is a study of bacteria as microorganisms whose life habits involve metabolic activities which have an important bearing upon human affairs. A survey of the pathogens is included together with an introduction to the principles of immunology. 2 hours lecture and 4 hours lab. Prerequisite: Organic Chemistry.
One semester

58. *Advanced Bacteriology* *4 credits*

This is an extension of the preceding course and involves a more detailed study of the principles and practices of bacteriology with emphasis upon the special cultural methods and tests employed in the growth and preparation of bacterial organisms. Consideration is given to serological tests and the principles upon which they are based. 2 hours lecture and 4 hours lab.
One semester

61. *Biology Seminar* *1 credit*

The work of this course is based on recent advances in all fields of biological research and the discussion of basic problems of biology in the light of modern research results. The seminar method is used with each student contributing prepared papers and taking part in discussions. 1 two hour discussion period. Prerequisite: 20 credits in Biology.
One semester

62. *Undergraduate Research and Thesis*

Reserved for advanced students with the satisfactory preparation in the biological and physical sciences who are desirous of acquiring methods in biological research. The subject of the problem, time and credits are to be arranged individually. Prerequisites: 20 credits in Biology, Organic Chemistry, General Physics.

DEPARTMENT OF BUSINESS ADMINISTRATION

The courses in business administration are designed to meet the requirements of two specific groups: first, students who desire a knowledge of accounting and business administration as a background for executive positions or for the professions, particularly law; secondly, students who intend to make accounting their life work.

1. *Elementary Accounting* — *4 credits*

Meaning and purpose of accounting. Detailed study of all types of balance sheets and profit and loss statements. The ledger and the accounting statements. Complete review of bookkeeping procedures. Credit accounting. Special ledgers. Working papers. Adjustments. Business papers. The voucher system. Analysis of financial statements. Partnership formation and operation. Division of profits. Financial statements for a partnership. Methods of admitting new partners. Partnership dissolution and liquidation in installments. Revaluation of assets.
One semester

2. *Elementary Accounting* — *4 credits*

Nature and characteristics of a corporation. Proprietorship in the corporation. Capital stock and its classifications. Incorporation. Issuing stock. Changing from a partnership to a corporation. Corporation accounts and records. Corporation securities; bonds, mortgages, investment trusts, sinking funds and reserves. Financial statements. Preparation of financial statements. Working papers for a manufacturing concern. Periodic summary. Inventory valuation and control. Perpetual inventories. Income and costs by departments and branches. Departmental analysis in accounts and books of original entry. Apportionment of operating expenses to departments. Departmental worksheets. Financial statements.
One semester

3 & 4. *Accounting Mathematics* — *6 credits*

Percentage in all its applications. Simple and compound interest. Bank, trade and cash discounts. Commissions. Bankers' daily balances. Equations of accounts. Averages. Building and Loan Association Problems.
Two semesters

21. *Advanced Accounting* — *4 credits*

The accounting process—corporations. Cash and receivables. Inventory valuation. Investments. Stocks and bonds. Detailed study of partnership formation and operation. Installment accounting. Partnership dissolution and liquidation.
One semester

22. *Advanced Accounting* — *4 credits*

Consignment accounting. Agency and branch accounting. Consolidated accounting. Accounting for bankruptcy under the National Bankruptcy Act. Statement of affairs. Receivership accounts and statements. Accounting for estates and trusts. Joint ventures.
One semester

23. *Economic Geography* — *3 credits*

A study of the physical environment, which in a large sense sets the stage for all economic activities. Specifically, the influence of climate, land forms, soils and their distribution on the surface of the earth are investigated.
One semester

51 & 52. *Cost Accounting* — *8 credits*

This course stresses recent developments in cost work, in particular the use of cost accounting in measuring and evaluating plant performance and controlling expenditures, and distribution costs. It includes a thorough consideration of the basic principles of cost accounting, together with their practical application in the development of cost accounting procedures. Full consideration is given to job order, process and standard cost procedure. A complete set of forms is included in which cost principles are applied under conditions closely approximating actual cost practice. Development and installation of cost systems. Standard costs as a measure of efficiency and means of controlling cost.
Two semesters

53. *Auditing* — *4 credits*

This course gives instruction in auditing principles, procedure and application of principles. Accounting system installation is treated at length.
One semester

54. *Federal Taxation and Procedure* — *4 credits*

The present Federal tax system and its legal and accounting problems. The important provisions of the statute and the administrative regulations issued thereunder, together with their applications to individuals, partnerships and corporate taxpayers, are given special attention. Administrative procedure, including claims for refund, will also be considered.
One semester

55. *C. P. A. Review* — *3 credits*

A detailed review of problems and questions taken from current examinations given by the various states to candidates for the degree of Certified Public Accountant.
One semester

61. *Corporation Finance* — *3 credits*

This course deals with the financial structure and problems of modern business corporations. Common types of securities. Promotion including parts played by promoters, investment banker, his organization, and security dealer. Determinations, management and distribution of surplus. Financial problems of expansions, including changes in financial plans. Securing funds for expansion. Failure of corporations, reorganization and liquidation.
One semester

62. *Money and Banking* — *3 credits*

A general survey of the field of money and credit. Evolution of money media, functions of money, commercial banking operations and the use of bank credit in financing business, history of banking in the United States, Federal Reserve System, foreign exchanges and the methods of financing foreign trade, money

markets, theory of prices, price stabilization, monetary and banking problems of today.
One semester

63. *Insurance* — 3 *credits*
The aim of this course is to present the underlying principles upon which all forms of insurance are based. The principles are developed as they apply to the different branches of business. The major divisions of insurance, life, casualty, fire, marine, fidelity and corporate surety, employer's liability, title and credit insurance are discussed at length.
One semester

64. *Investments* — 3 *credits*
A study of investment theories and the principles underlying the choice of securities for an individual investment policy. The aim is to develop by classroom discussion and individual investigation a method of procedure to be followed in the analyzing of various types of securities.
One semester

65. *Advertising* — 3 *credits*
A practical course in the writing of advertisements with actual practice in layout, copywriting and proof reading. Instructions in sales promotion, advertising and advertising policies. Organization of advertising departments from a "one-man" business to a business of many departments. The advantages, opportunities and possibilities of newspaper, direct mail and radio advertising, contrasted with their limitations and disadvantages.
One semester

66. *Marketing* — 3 *credits*
The marketing system of the United States is analyzed. Attention is given to the marketing of agricultural products, raw materials and manufactured products. Co-operative marketing, the marketing problems of the individual business, market research and analysis, choice of marketing channels, sales promotion, sales management and control of selling costs are discussed at length.
One semester

67. *Retail Merchandising* — 3 *credits*
An introduction to the principles of retailing. Field of merchandising, buying, markups and markdowns, figuring profits, retail method of inventory, merchandising control, unit control, sales promotion and advertising, better selling, training of salespeople, coordinating all selling activities.
One semester

68. *Business Finance* — 6 *credits*
Legal forms of business, promotion of new businesses, financing of new and going businesses. The small business as well as the large is discussed. Attention is given to current financing as well as to long time financing by the issuing of stocks

and bonds. The work of the financial executive and the organization of the financial department. Methods of controlling expenditures. Business combinations and reorganizations.
Two semesters Evening

69. *Business Policy* *6 credits*

The aim of the course is to coordinate the work given in the specialized business courses, to show the interrelationship between economic theory and business problems, and to indicate the place of public relations in management. Individual research on business problems may be required during the second semester.
Two semesters Evening

70. *Traffic Management* *2 credits*

Transportation of freight; shipment preliminaries; methods of shipping; freight tariffs; Canadian freight classification and rates; special freight services; tracing, expediting and claims; regulation of commerce; industrial traffic control; express and parcel post; motor freight transportation; air transportation.
One semester Evening

71 & 72. *Business Law* *6 credits*

The law of contracts. Personal and real property. Bailments. Crimes that concern the business man. Bills and notes. Negotiable instruments.
Two semesters

73 & 74. *Business Law* *6 credits*

Sales and mortgages of personal property. Agency. Partnership. Corporations.
Two semesters

78. *Retail-Store Management and Operation* *3 credits*

Successful methods of organization and operation in the store manager's division are discussed. The course covers an analysis of operating expenses, stressing the importance of budgetary control, wage methods and selling costs, systematic procedures in the receiving department, the service division, delivery, the bureau of adjustments, credit, workrooms, and the purchasing of supplies. Plans to keep operating expenses at a minimum are studied.
One semester Evening

79. *Salesmanship* *4 credits*

This course is a practical approach to the problems of selling. The principles of commodity analysis, personal training, customer approach, selling talk are taught.
One semester Evening

DEPARTMENT OF CHEMISTRY

The aims of the department are: 1. To train students to think accurately and logically, to develop an analytical type of mind, and to inculcate the scientific method of attacking a problem not only in chemistry but in other fields of endeavor. 2. To develop character traits such as patience, pertinacity, honesty and neatness, which are indispensable to the scientist. 3. To train the student for a position carrying some degree of responsibility, either as an advanced student in a graduate school or as a member of the staff of an educational, industrial or research institution.

1 & 2. *General Chemistry and Qualitative Analysis* — *10 credits*

This course is designed to present the basic principles of chemical theory together with a systematized survey of the elements and their more important compounds. The theory of solutions and its application to qualitative analysis are integral parts of the course. The laboratory work follows in a general way the topics discussed in lectures and recitations, the second semester being devoted almost entirely to qualitative analysis, in which the semi-micro technique is used. 3 hours lecture and 4 hours lab.

Two semesters

21. *Quantitative Analysis* — *4 credits*

This course is in reality a continuation of Chem. 1 & 2 and presupposes a knowledge of the fundamental principles therein discussed. The emphasis is on technique, the student determining the percentage composition of a variety of unknown salts and alloys. Six hours. Pre-requisite: Chem. 1 & 2. 2 hours lecture and 4 hours lab.

One semester.

51 & 52. *Organic Chemistry* — *5 credits*

A course designed to acquaint the student with the fundamental types of carbon compounds, their methods of preparation, and their important properties. Emphasis is placed on the importance of Organic Chemistry as a fundamental branch of science from a practical as well as from a theoretical standpoint. 3 hours lecture and 4 hours lab.

Two semesters

53 & 54. *Physiological Chemistry* — *6 credits*

A course designed to acquaint the student with the nature and important reactions of the three great classes of foodstuffs: carbohydrates, fats and proteins; their digestion, absorption and metabolism in the body, together with the determination of the important constituents of the various body fluids. In the second semester special emphasis is placed on the technique and clinical significance of blood and urine analysis. Pre-requisites: Chem. 1 & 2, 21, 51 & 52. 2 hours lecture and 2 hours lab.

Two semesters

55 & 56. *Physical Chemistry* *4 credits*
A study of the energy relationships and equilibria in chemical reactions. The fundamental principles governing chemical reactions are discussed in the light of the various theories and experiments that have been proposed in an effort to explain why and how these reactions proceed. 3 hours lecture and 3 hours lab. Pre-requisites: Chem. 1 & 2, 21, 51 & 52 and Math 22.
Two semesters

61. *Qualitative Organic Analysis* *4 credits*
The systematic classification and identification of organic compounds from the standpoint of their solubilities and group reactions. After a preliminary study of important principles and techniques, the student is given several unknown compounds and mixtures to separate and identify. 1 hour conference and 6 hours lab.
One semester

62. *Advanced Biochemistry* *Variable Credit*
A continuation of Chemistry 53 and 54. Special methods of blood and urine analysis are used, and studies in nutrition may be made.
One semester

63. *Advanced Analytical Methods* *Variable Credit*
An elective course intended for those who wish to major in Chemistry. The course consists of lectures, conferences and laboratory study of analytical procedures, both qualitative and quantitative, not included in the more elementary course.
One semester

DEPARTMENT OF CLASSICAL LANGUAGES

The objectives of the classical department are: first, to develop in the student the ability to read easily and to compose readily in Latin and Greek; secondly, through the unrivaled discipline afforded by the tongues of Greece and Rome to train the student in habits of accurate observation, orderly procedure, analysis, logical and inferential thinking; thirdly, to develop the student's powers of appreciation and expression by a thorough study of the matchless artistry of classical literature; and finally to give him a comprehensive understanding of the human values of Graeco-Roman culture in both its pagan and patristic phases and of its profound contributions to modern civilization.

I. Greek

1 & 2. *Elementary Greek* *8 credits*
A complete course in the fundamentals of classical Greek, with selected readings and composition work to illustrate the grammar.
Two semesters

3. *Herodotus* — *4 credits*

Selections illustrating the Greek spirit of "historia," the informing spirit of western civilization, and the Greek defense of western against eastern culture. Open to Freshmen who enter college with at least two years of Greek.
One semester

4. *Plato* — *4 credits*

The Apology and selections from the Crito and Phaedo are read. A study of one of the noblest characters of antiquity, his ideals and his effect on western thought.
One semester

21. *Demosthenes* — *3 credits*

The course covers the Olynthiacs and Philippics, which are studied both from the point of view of oratorical composition and as a presentation of the Greek ideal of freedom together with the causes leading to its collapse.
One semester

22. *Homer* — *3 credits*

Selections from the Iliad and Odyssey with a comparative study of the Latin, Italian and English epics. A study of the Greek spirit revealed in its great epics.
One semester

31. *Greek Tragedy* — *3 credits*

A study of Greek tragedy, its spirit, structure, and original contributions to dramatic art. Sophocles' Oedipus Tyrannus and Euripides' Hecuba are studied in detail.
One semester

32. *Plato's Republic* — *3 credits*

A study of Greek thought; the soul, education, justice, government, the Ideas.
One semester

41. *Aristotle* — *3 credits*

Selected readings from the Ethics and Politics in which Aristotle's influence on western philosophy is carefully analyzed.

42. *New Testament Greek* — *3 credits*

The linguistic peculiarities of *koine* Greek, with readings from the New Testament.
One semester

II. LATIN

1. *Latin Historians* — *4 credits*

Review of the essentials of grammar and syntax. Readings in the Latin historians, principally Livy. The objectives of the course are to perfect the student's understanding of the Latin language and to give him a grasp of the great trends of Roman history from the early Republic to the Principate.
One semester

2. *Cicero, Politician and Orator* *4 credits*
Selections from the Verrine and Philippic orations. The rhetorical style of Cicero is studied in detail; topics of discussion are centered around the great political and social problems of the declining Republic.
One semester

21. *Horace, Catullus* *3 credits*
In reading the Odes of Horace and the poetry of Catullus attention is concentrated on two main points, development of the power to appreciate aesthetically the lyric beauty of the poems and a deeper understanding of the pagan attitude to life both in its virtues and its shortcomings.
One semester

22. *Virgil* *3 credits*
Readings in the text of the Aeneid with a comparative study of the great epics of other languages. Emphasis is laid on the poetic values of the work and on its presentation of the Roman spirit.
One semester

51. *Cicero, Essayist and Philosopher* *3 credits*
A study of the De Senectute together with selections from the De Officiis and Tusculan Disputations. Attention here is given to discussion of pagan philosophy and an evaluation of the pagan view of life in contrast with the Christian with a view to enriching the student's appreciation of the Christian heritage.
One semester

52. *Cicero; De re publica* *3 credits*
A study of the history of political science with references to Plato and Aristotle.

53. *Lucretius: De rerum natura* *3 credits*
A detailed study of the text, versification and qualities of style together with an examination of the leading philosophical ideas contained in the poem. The work of Lucretius will be contrasted with Cicero's philosophical writings.
One semester

54. *Patristic Latin* *3 credits*
The Confessions of De civitate dei will be read in a study of the development of late and Christian Latin. The course includes a survey of early Christian thought.
One semester

DEPARTMENT OF EDUCATION

The Department of Education proposes to assist students in determining their qualifications as teachers; to develop high ideals of the teaching profession along with the vocational knowledge, skill and attitudes necessary for successful entry into it; to qualify students for state certification on the secondary level; and to meet the requests for courses by teachers in service in the Scranton area.

51. *Introduction to Education* — *3 credits*

An introductory study of education for the purpose of giving the student a general survey of the field of education as a preparation for the later more detailed studies necessary in his professional training. This course acquaints the student with some of the larger problems to be solved, the various fields of service open to him as a professional worker and the attendant requirements and responsibilities of each.

One semester

52. *History of Education* — *3 credits*

A survey of educational development from primitive times to the present. The aim of the course is to trace the development of present tendencies from primitive society, Greek and Roman education, Christian education, the Renaissance, and from the changes brought on by realism, philanthropic education, the psychological movement and the scientific movement. Contributions to modern educational practice are noted.

One semester

53. *Educational Psychology* — *3 credits*

An introductory course dealing with the applications of psychology to the teacher's task. In studying the individual in relation to the problems of education, the following are some of the topics discussed: original nature, habit foundation, nature of intelligence, nature of the learning process, types of learning, interest, attention, transfer of training, and individual differences.

One semester

54. *Philosophy of Education* — *3 credits*

A study of the fundamental concepts and ultimate objectives of education in a democracy. Present day principles and practices of educational theory. Some of the problems to be considered are: philosophy of life, the nature of the individual, democracy and education, private vs. public education, the curricula, principles of method and moral education.

One semester

55. *General Methods of Instruction* — *3 credits*

A professional course in the methods of teaching. This course gives the student an understanding and appreciation of the fundamental principles upon which good teaching is founded. Many methods are discussed and evaluated.

One semester

56. *Selection and Organization of Subject Matter on the High School Level* — *3 credits*

This course includes a review of the subject matter field with selection suitable to the high school level, an analysis of high school text books, and the laying of a plan for a teacher to keep up to date in his subject matter. This course is conducted co-operatively between the subject matter departments and the Department of Education.

One semester

57. *Observation and Practice Teaching* — *6 credits*

Observation and study of classroom teaching are combined with actual student teaching under expert supervision. Attention is given to the organization and presentation of subject matter, to program handling, class discipline, making reports and other school activities. Conferences are held with the supervisor of teacher training and the instructor under whom each student does practice teaching. Pre-requisites: Education 51 & 53 plus six additional credit hours in education including Education 56 or its equivalent.

One semester

58. *Problems of Secondary Education* — *3 credits*

A study of the practical problems of the high school from the standpoint of the teacher. The aims of the high school and how they are achieved through the program. Analysis of the various phases of the teacher's work in the classroom, in school routine, in supervision and in guidance. Professional and social relationships in school and community.

One semester — Evening

59. *School Administration and Supervision* — *4 credits*

A discussion of the problems involved in State, County and City school administration and supervision. State and national participation, both as to support and control are included. The following topics are among those studied: organization, finance, budgets, pupil accounting, health, building programs, teacher selection, salaries, tenure, school law, school survey and supervision of instruction.

One semester — Evening

60. *Educational Tests and Measurements* — *3 credits*

This course is designed to acquaint the student with intelligence and achievement tests and to give him a working knowledge of various standard tests and scales available for classroom use. It considers administration, scoring, tabulation and interpretation of results and the use of tests for diagnosis. Basic principles in the construction of the new type tests, emphasizing their reliability, validity, discrimination and objectivity.

One semester — Evening

61. *Techniques of Visual and Other Sensory Aids* — *4 credits*

The state course of study is followed. All types of materials and pictures that can be used in teaching are studied. Picture projection is studied as a regular classroom procedure, and objective tests are constructed, based on educational films. Other visual aids stressed include school journeys, objects-specimens-models, charts, graphs, diagrams, and maps.

One semester — Evening

62. *Educational and Vocational Guidance* — *4 credits*

This course proposes to give teachers and administrators a concept of guidance which will enable them to see the relation of student direction to education as a whole.

One semester — Evening

63. *Teaching of English* — *4 credits*

General problems and objectives. Articulation of elementary school English with secondary school English.

One semester — Evening

64. *Teaching of Foreign Languages* — *4 credits*

A course dealing with the selection and development of appropriate materials and methods for teaching the foreign languages on the high school level.

One semester — Evening

65. *Teaching of Mathematics* — *4 credits*

A course dealing with the selection and development of appropriate materials and methods for teaching mathematics on the high school level.

One semester — Evening

66. *Teaching of the Sciences* — *4 credits*

A course dealing with the selection and development of appropriate materials and methods for teaching the sciences on the high school level.

One semester — Evening

67. *Teaching of the Social Studies* — *4 credits*

A course dealing with the selection and development of appropriate materials and methods for teaching the social studies on the high school level.

One semester — Evening

68. *Teaching of Junior High School Mathematics* — *4 credits*

This course is designed for Junior High School mathematics teachers; it includes an intensive review of the basic subject matter of advanced arithmetic, algebra and geometry with methods of presenting these subjects to Junior High School students. In addition particular attention is devoted to the problems of motivation and making mathematics practical, and to methods of overcoming the student's difficulties with mathematics.

One semester — Evening

DEPARTMENT OF ENGINEERING

1. *Algebra and Trigonometry* — *4 credits*

An intensified course which covers the topics of simultaneous equations, quadratic and higher order equations, complex quantities, exponents, logarithms, trigonometric functions, solutions of triangles; trigonometric laws, identities and equations; and inverse functions. Four hours.
One semester

2. *Analytic Geometry and Introduction to the Calculus* — *4 credits*

This course covers the subject of Analytic Geometry and leads into Calculus. The subject matter includes loci, straight lines, circles, ellipses, and other conics, the process of limits and differentiation, slopes, maxima and minima of curves, the principle of integration and some applications. Four hours.
One semester

3 & 4. *Elements of Mechanical Drawing* — *4 credits*

Use of drawing instruments, lettering, orthographic projections, reading of blue prints, intersections and developments, freehand drawing, tracings and detail drawing of machine parts. Freehand sketching from models of simple machine parts, dimensioned drawings of objects in orthographic projections, isometric, oblique and assembly plates, tracings and blue printing. Four hours.
Two semesters

21 & 22. *Elementary Engineering Mechanics* — *6 credits*

The first half of this course is devoted to the study of the subjects of statics, centroids of plane and solid figures, centers of gravity of bodies and moments of inertia of masses. The second half of the course is devoted to the study of dynamics; kinetics and kinematics of particles and rigid bodies, friction, machines, energy, work and power. Six hours.
Two semesters

23. *Plane Surveying* — *3 credits*

The theory of surveying and the use of surveying instruments in leveling, simple triangulation, measurement of areas, topography and maps. Six hours.
One semester

24. *Descriptive Geometry* — *2 credits*

The geometric method of projection of lines, planes and solids, and the application of these methods to problems of structures. Four hours.
One semester

25 & 26. *Advanced Engineering Drawing* — *4 credits*

Machine design as applied to common machine elements. Advanced work in detail and assembly of working drawings. Four hours.
Two semesters

28. *Engineering Physics* — *4 credits*

A more advanced course than elementary physics, it covers the subjects of Mechanics, Heat and Electromagnetics; the mathematical methods of calculus are employed freely. Three hours of lecture and two hours of laboratory.
One semester

29. *Stoichiometry* — *2 credits*

A problem course dealing with the calculations of material and heat quantities in chemical reactions. Two hours.
One semester

DEPARTMENT OF ENGLISH

The aim of the Department of English is to furnish the student with a balanced course in English which will realize the objectives of a liberal arts college. The course is planned to train the student to read, write and speak English as effectively as possible and encourage him to appreciate more deeply the artistic creations of the English language.

All candidates for the degree will be required to take courses 1-4, and 21-22. The remaining courses are offered as electives for those who have satisfied the requirements of the basic course.

0. *Essentials of Written English* — *No credit*

A course in fundamentals required of those freshmen whose knowledge is found to be insufficient. The object of the course is a thorough mastery of the fundamentals of writing: spelling, punctuation, diction, grammar and sentence structure. Frequent themes are required. This course is not a substitute for college composition.

1. *The Art of Literary Prose* — *4 credits*

A study of the art of English literary prose and practice in the art of literary composition. The course comprehends a study of the structure, its unity, coherence, emphasis; of the style, its clearness, force, elegance; and of the narrative, descriptive, and expository forms of literary discourse as found in the works of the great English prose authors. Readings will be required in the various forms and the student will be expected to acquire some skill in the art of exposition through frequent themes.
One semester

2. *The Art of Persuasion* — *4 credits*

A thorough study of the principles governing the art of oratory: the style of the spoken word, speech structure, argumentation, emotional appeal, and persuasion as they were exemplified in the great English and American speeches of the 18th, 19th, and 20th centuries. Frequent drills in the writing of speeches will be required.
One semester

3 & 4. *Oral English—Fundamental* — *2 credits*

Mechanics of oral English with a study of posture, bearing, voice, articulation and enunciation. Exercises in reading aloud intelligently, and practice in direct simple effective speaking in conversation and on the platform.

Two semesters

21. *The Art of Poetry* — *4 credits*

A thorough study will be made of the types and the techniques of English poetry, exclusive of dramatic poetry. A fairly comprehensive survey will be made of the development of English poetry and a knowledge of its trends and greater masterpieces will be required. The student will continue to develop himself in the art of literary prose by weekly themes in appreciation of his readings in poetry and by exercises in the writing of simple forms of verse.

One semester

22. *The Art of the Drama* — *3 credits*

An introduction to dramatic poetry with a brief evaluation of the contribution of the Classics and their influence on English drama. A thorough study of the art and techniques of the English drama from its beginnings up to the present, including an adequate, though not comprehensive, study of Shakespeare. Weekly reports and observations will be required on collateral assigned readings in the drama.

One semester

23 & 24. *Oral English—Advanced* — *2 credits*

Training and exercises in interpretative and dramatic reading and speaking. Introduction to radio technique and exercises over the microphone in reading and speaking. Workshop in the short debate, round table discussions, dramatic sketches. Students of this course will be expected to exercise their talents in the various college activities open to them, such as the debating societies, dramatic societies and discussion clubs.

Two semesters

51. *Shakespeare and the Elizabethan Dramatists* — *3 credits*

A thorough study of Shakespeare against the background of his period and in his relation to his contemporaries. All the important plays are read; some of them are studied in detail. Collateral reading will be required in the significant plays of the minor Elizabethan dramatists.

One semester

52. *Eighteenth Century Literature* — *3 credits*

A study of the literary theories of the neo-classical poets and critics as found in their poetry and prose.

One semester

53. *Romantic Literature* — *3 credits*

A study of the rise and development of the romantic movement in English literature, its literary theories and creations.

One semester

54. *The History of the English Novel* — *3 credits*

The development of the novel as a literary form is considered from its beginnings to the present. Representative novels are read and discussed and the student is required to write mature critical reviews of his readings.

One semester

55. *Survey of English Literature* — *4 credits*

A survey of English literature from its beginnings to the end of the eighteenth century. The course will center around the greater English poets and prose writers. Wide reading of specimens, representative of the main types and periods, is required. In this course no attempt is made to study the development of the drama or novel.

One semester — Evening

56. *Survey of Modern English Literature* — *4 credits*

This course is a continuation of English 55. Emphasis will be placed on the major writers of poetry and prose in the nineteenth and twentieth centuries. Wide collateral reading is demanded.

One semester — Evening

57. *Modern Drama* — *3 credits*

The study of the development of the technique of drama from Ibsen to the present day through the reading of representative nineteenth century and contemporary plays.

One semester

58. *American Literature* — *3 credits*

A survey and critical study of the literature of America. The student will be required to know the main literary trends and the significant contributions of the leading men of letters in America. Weekly reports and observations on the assigned collateral readings will be required.

One semester

59. *Business Letters and Correspondence* — *4 credits*

This course covers the entire field of business correspondence. The principles of modern business letter writing are explained, illustrated and applied to the various types of letters used in commercial houses. Abundant opportunity is given the student for practice in the art of business letter writing. Wherever possible, the letter problems are based upon material gathered from the files of progressive business concerns.

One semester — Evening

60. *Journalism* *4 credits*
A survey of the theory and practice of journalism: various kinds of journalistic writing are treated: news and publicity, stories, rewrites, special editorials, newspaper terminology.
One semester Evening

61. *Public Speaking* *2 credits*
A study of the principles involved in the effective preparation and delivery of spoken discourses. A combination of theoretical training and practice with emphasis upon the mechanics of oral English in order to develop speaking ability: posture, bearing, voice, articulation and enunciation. Elementary types of speeches are presented and criticized by members of the class.
One semester Evening

62. *Public Speaking* *2 credits*
This course continues the work of the first semester, but gives closer attention to the more specialized types of public speaking, with special emphasis upon ease and effectiveness in delivery. In addition a detailed study is made of the psychology of the audience.
One semester *Evening*

63. *Creative Writing* *3 credits*
The sketch, essay, feature article, short story, and one act play. Training in all types with a view to editorial wants. Laboratory procedure.
One semester

DEPARTMENT OF HISTORY

The aims of the History Department might be stated as: 1. to present history as the science of human activities and concrete events which have social significance; 2. to demonstrate that the content constitutes a body of knowledge the parts of which are interdependent because of their causal relations; 3. to encourage the student to approach the subject in the historical method of investigation, determination, and reconstruction; 4. to bring the student to an intelligent and sympathetic understanding of the culture and civilization of other peoples.

1. *Political and Social History of the United States* *3 credits*
A fundamental study of the history of the United States from the era of European beginnings in America to the end of the Civil War.
One semester

2. *Political and Social History of the United States* *3 credits*
A continuation of the history of the United States from 1865 to 1945. A fundamental study of the period from the end of the Civil War to the present time.
One semester

3. *Political and Cultural History of Modern Europe* 3 *credits*
This course covers the period from 1500 to 1830. A fundamental study of the history of modern Europe from the period of the rise of the national monarchies of Western Europe to the beginnings of industrial society.
One semester

4. *Political and Cultural History of Modern Europe* 3 *credits*
A study of the history of modern Europe from 1830 to 1914.
One semester

51. *Diplomatic History of the United States* 3 *credits*
A study of the foreign policy of the United States from the Pre-Revolutionary démarche to the Webster-Ashburton Treaty in 1842.
One semester

52. *Diplomatic History of the United States* 3 *credits*
This course is a continuation of the diplomatic history of the United States from the time of the Webster-Ashburton Treaty down to the present. The stress is laid upon the evolution of American foreign policy.
One semester

53. *Latin-American History* 3 *credits*
This is a survey of pre-Columbian America, the Spanish and Portuguese colonial era, through the success of the Spanish-American and Portuguese-American revolutions.
One semester

54. *Latin-American History* 3 *credits*
This is an historical survey of the republics of Argentina, Brazil and Chile. Special stress is laid on political evolution and inter-American problems.
One semester

55. *American Constitutional History* 3 *credits*
A survey of American constitutional history with special emphasis on the bases of American constitutionalism, the Federal Convention, the growth of the Supreme Court, the problems of states rights, nationalism, slavery, constitutional problems, presented by the Civil War and Reconstruction, the significance of the fourteenth amendment, imperialism, the world war, federal centralization, and the problem of court reform.
One semester

56. *Ancient History* 3 *credits*
A survey of the culture and civilization of the Mediterranean World to the end of the Barbarian invasions.
One semester

57. *The Middle Ages* — *3 credits*

A study of the distinctive spirit, manners, morals and institutions, education, culture, and social organizations of medieval society. Church and State. The Crusades. The Renaissance. Islam.

One semester

58. *Philosophy of History* — *3 credits*

Cause and law in history. Basic factors of history universally considered. Man, nature, the supernatural. Environmental culture: religion, morality, economic and institutional life, art and science; origin, operation, mutual relation, and integration of these factors in the texture of historical events. Historical verification of purposive unity and sequence in the perspective of events; ultimate purpose of man in history; goal of human progress.

One semester

60. *Contemporary American Civilization* — *3 credits*

An analysis of the leading economic and cultural aspects of American civilization since 1865. Among the topics treated are the growth of industry, agriculture and agrarian discontent, the disappearance of the frontier, labor and immigration, sport, literature, the arts, religious tendencies, and the diffusion of knowledge.

One semester

61. *The World Since 1914* — *3 credits*

A study of the background of the period; of the world war, of the making of peace and of the five famous treaties; of the national and international problems therefrom, and the efforts to solve them.

One semester

62. *History of Pennsylvania* — *4 credits*

A study of the political, economic and social factors in the history of the commonwealth, from colonization to the present time.

One semester — Evening

63. *The Political Parties of the United States* — *4 credits*

A study of the causes of their origins, development and decline; their principles and practices; their leaders and constituents, and their contribution to the political theory and practice of the nation.

One semester — Evening

64. *Slavery in the United States* — *4 credits*

A survey of the institution in the ancient and medieval civilizations. The origin, development, expansion and suppression of slavery in the United States and its economic, social, political and religious significance.

One semester — Evening

DEPARTMENT OF MATHEMATICS

It is the purpose of the Mathematics Department to fix in the students' minds the fundamental mathematical operations and concepts by which he will be able to make the ordinary calculations that arise in everyday life and in the different sciences. Furthermore, the various applications of mathematics are pointed out and the student is given some idea of the power of mathematics as a tool to be used to give meaning to the observable facts of the sciences. Those students who major in science are given Calculus and other courses of Advanced Mathematics so that they shall be adequately prepared for calculations and computations of a more advanced nature. And those who plan to teach Mathematics have an opportunity to earn the required credits and to become familiar with some of the finer points of mathematical theory.

1. *College Algebra* — *4 credits*

Linear, quadratic and algebraic equations. Functions and graphic methods. Mathematical induction, permutations and combinations, determinants, etc. Four hours.

One semester

2. *Plane Trigonometry* — *4 credits*

Four hours.

One semester

3. *Analytic Geometry* — *3 credits*

The fundamental properties of the conic sections and a brief introduction to the geometry of three dimensions. Three hours. Pre-requisites: Math. 1 and 2 or entrance Trigonometry.

One semester

5 & 6. *Mathematical Analysis* — *8 credits*

For students who will do advanced work in mathematics. It will be a survey of the subjects of Algebra, Trigonometry, Analytical Geometry, and will include an introduction to Calculus. Four hours.

Two semesters

21. *Differential Calculus* — *3 credits*

Variables and functions; limits; differentiation; geometrical and physical applications of the derivative maxima and minima; differentials; rates, indeterminate forms; expansion of functions in series. Three hours. Pre-requisites: Math. 1 and 3.

One semester

22. *Integral Calculus* — *3 credits*

Integration as the inverse of differentiation; the definite integral; reduction of integrals to standard forms; integration as a process of summation; areas, lengths of curves, volumes, physical applications, double and triple integrations, etc. Three hours. Pre-requisite: Math. 21.

One semester

51. *Advanced Algebra and Calculus* — *3 credits*
Selected topics of advanced Algebra including the theory of equations. Recommended for Mathematics majors. Three hours. Pre-requisites: Math. 21 and 22.
One semester

52. *Advanced Calculus* — *3 credits*
Theorem of mean value; centroids, fluid pressure; Taylor and MacLaurin series; partial differentiation. Three hours. Pre-requisite: Math. 22.
One semester

53. *Differential Equations* — *3 credits*
Formation of a differential equation; equations of the first order and first degree; equations of higher degree than the first, Clairaut's equation; singular solutions; applications to geometry, mechanics and physics. Three hours. Pre-requisite: Math. 52.
One semester

54. *Vector Analysis* — *3 credits*
A treatment of the theory of vectors and their applications to the solution of mathematical and physical problems. Recommended for physics and mathematics majors. Three hours. Pre-requisite: Math. 21 and 22, and preferably Physics 51 and Math. 52.
One semester

55. *Advanced Differential Equations* — *3 credits*
Methods of solving complex differential equations which arise in connection with engineering and physics. Three hours. Pre-requisites: Math. 53, Physics 1 & 2, and preferably Physics 51.
One semester

56. *Mathematical Analysis for Advanced Students* — *3 credits*
An integration course covering the fundamental branches of mathematics designed for those students who have majored in mathematics and for those who intend to teach the subject. Three hours. Pre-requisites: Fifteen hours of college mathematics.
One semester

57. *Introduction to Statistical Analysis* — *3 credits*
Curve plotting; frequency curves, averages, measures of dispersion, theory of correlation. Applications to the natural and social sciences. Three hours. Pre-requisites: Math. 21 and 22.
One semester

58. *History of Mathematics* — *3 credits*
Pre-requisites: Math. 2; and 22.
One semester

DEPARTMENT OF MODERN LANGUAGES

At the beginning of the first semester a placement examination is given to all students offering two years or more of high school credit in modern languages. Students failing in this test and students admitted with less than two units in the same modern language are required to take the elementary courses in the language offered.

The primary linguistic aim of the courses is the attainment of an adequate reading knowledge in the language that is studied. In all courses written, oral and aural exercises are employed to realize this objective: for students who desire special training in conversation, hours can be arranged. The secondary aim of the courses is to come to a fuller understanding of the history and culture of foreign peoples through the study of their native tongues.

I. FRENCH

1 & 2. *Elementary French* — *6 credits*

This course is intended for those who begin French in college. Principles of French grammar, practice in reading, writing and speaking French. Its aim is to enable students to read ordinary French with ease and to understand to some extent the spoken language.

Two semesters

21 & 22. *Intermediate French* — *6 credits*

This course presupposes two years of high school French or the equivalent of elementary French. Review of French syntax: reading of selected short stories and written composition.

Two semesters

31 & 32. *Advanced French* — *6 credits*

Study of the French novel with emphasis on more recent authors. Written assignments in French and English are required.

Two semesters

51 & 52. *French Drama* — *6 credits*

Study of the French drama; Corneille, Racine, Moliere, Rostand. Written composition; supplementary reading.

Two semesters

53 & 54. *French Oratory* — *6 credits*

A course in French rhetoric with a detailed study of the sacred orators of the seventeenth century.

Two semesters

II. GERMAN

1 & 2. *Elementary German* — *6 credits*

A complete course in the fundamentals of the German language. Emphasis on reading of graded texts, with written, oral and aural exercises.

Two semesters

21 & 22. *Intermediate German* — *6 credits*

Readings from modern authors of moderate difficulty. Oral and written exercises. Systematic review of German grammar, as needed.

Two semesters

31 & 32. *Advanced German* — *6 credits*

Selected texts in prose and poetry. Advanced practise in conversation and composition.

Two semesters

51 & 52. *Scientific German* — *6 credits*

Reading of technical and scientific German.

Two semesters

53. *The German "Novelle"* — *3 credits*

Extensive reading. Emphasis on literary appreciation of this form.

One semester

54. *The German Classics* — *3 credits*

Readings from Goethe and Schiller; an understanding of their position in world literature.

One semester

History of German Literature — *3 credits*

Study of the history of German literature, accompanied by selected readings of significant German writers.

One semester

III. Polish

1 & 2. *Elementary Polish* — *4 credits*

Fundamentals of grammar, reading and composition.

Two semesters — Evening

21 & 22. *Advanced Polish* — *4 credits*

Reading of selected texts in prose and poetry.

Two semesters — Evening

IV. Russian

1 & 2. *Great Russian* — *4 credits*

Principles of the grammar of the Great Russian dialect, official language of the U.S.S.R. The new orthography and grammatical modifications introduced since the Bolshevik revolution will be followed. The object is to obtain a speaking and writing knowledge of standard Russian, with some practice in reading the Russian Classics.

Two semesters

21 & 22. *Advanced Russian* — *4 credits*

Two semesters

V. SPANISH

1 & 2. *Elementary Spanish* — *6 credits*

Exercises in the rudiments of grammar and pronunciation, translation of simple English sentences into Spanish, drill in dictation of words and sentences, acquisition of the common idioms of conversation.
Two semesters

21 & 22. *Intermediate Spanish* — *6 credits*

Review of the grammar, translation of classical authors into idiomatic English, and of English prose into Spanish; dictation of prose and poetry; literary criticism of selected texts. Pre-requisite: Spanish 1 & 2 or equivalent.
Two semesters

31 & 32. *Spanish Syntax and Composition* — *6 credits*

Application of the rules of Spanish syntax in the construction of difficult idiomatic sentences; original composition in Spanish. Reading and explanation of text in Spanish. More extensive conversation in Spanish.
Two semesters

51 & 52. *Advanced and Commercial Spanish* — *6 credits*

Review of Spanish literature and reading of the more important authors in class and of the less important authors outside of class. Free composition in Spanish including Spanish letter writing. Short history of Spanish literature.
Two semesters

53 & 54. *Modern Spanish Literature* — *6 credits*

A survey of contemporary Spanish literature; lectures, reports and collateral readings.
Two semesters

DEPARTMENT OF PHILOSOPHY

The program in the field of philosophy is designed to train the student in the art of thinking and to acquaint him with the significant issues which confront him in arriving at a reasoned explanation of the world in general and of man in particular. The method is both critical and constructive. Emphasis is laid on the centrality of theistic and ethical problems. Upon concluding the course the student will have gained an intimate acquaintance with the wisdom of the past and a thorough understanding of the principles and values, which are enduring foundations of the Christian culture and civilization of the West.

22. *Logic* — *2 credits*

Philosophy and science: divisions of logic. Nature of idea and phantasm. Kinds of ideas: universals, categories, predicables. Nature of terms; supposition. Definition and division: rules. Nature of judgment and proposition: truth and error in judgment; quality and quantity of propositions; opposition of propositions; infer-

ence. Reasoning and argumentations: deduction; nature of syllogism and its rules. Nature of induction, its logical foundations, inductive method, probability. Fallacies.
One semester

23. *Epistemology* — *3 credits*

The possibility of valid knowledge; skepticism and Descartes' doubt; the primary truths. The validity of human knowledge; sources of certitude; the truth value of consciousness; fallacy of idealism; the existence of extra-mental and extra-ego reality; problem of secondary qualities. Intellection: the importance and history of the problem of universals; critique of extreme realism, nominalism, conceptualism. Moderate realism; the value of necessary judgments, of deductive and inductive reasoning, of human testimony. The nature of objective evidence; the ultimate motive of certitude and universal criterion of truth.
One semester

53. *Cosmology* — *3 credits*

The origin of the universe; critique of pantheistic and naturalistic monism. Contingency of the world; creation; the final cause of the world. The common properties and activities of bodies: concept of quantity, its formal effect, existence of continuous extension. The philosophic concepts of space, place, time, motion. Causality and law; the existence of efficient causes; natural laws and miracles. Essential constitution of bodies: substantial change, bodily essences, corporeal constitution; dynamism and atomism. The ultimate constituent principles of bodies; prime matter and substantial form.
One semester

54. *Metaphysics* — *2 credits*

Definition of metaphysics: its relation to other sciences. The problem of being; analogical concept and transcendental attributes of being. The nature of change; potential and actual being, substance and accident. The Aristotelian analysis of causality. Contingent being: its origin, constitution, teleology. Absolute being.
One semester

55. *Natural Theology* — *2 credits*

An evaluation of the proofs for the existence of God as the unproduced, intelligent, personal, first cause of contingent being. The divine essence and attributes. God's knowledge and action in the universe. Pantheism and the problem of evil.
One semester

56. *Basic Ethics* — *4 credits*

Basic ethics studies the morality of human actions in general. Starting with the accepted notions of morals, morality, responsibility, obligation, it develops the true meaning of moral goodness and moral obligation. An analysis of free human actions from the point of view, first, of their finality, secondly, of their relation to the nature of the person, and, thirdly, of their concrete circumstances, leads

to an understanding of the essence of moral goodness and malice. The law of nature as applied to rational activity explains the meaning, nature, and extent of moral obligation. These constitute the objective order of morality. The subjective order of morality consists in the application of these objective norms through the practical reason and moral conscience.
One semester

57. *Special Ethics* *4 credits*
Special ethics applies the general principles of moral conduct to particular problems arising from man's relation to God, to his fellow-man, and to himself, and from his rights in respect to material possessions. Social morality first establishes the essential sociality of man, and then investigates the rights and duties natural to man in the three fundamental forms of human association; the family, the state, and religious society.
One semester

58. *Social Ethics* *2 credits*
A study of the genetic origin of human society in its three fundamental forms, the family, civil society, religious society; and of the social moral obligations of the individual arising from each of the three fundamental forms of society.
One semester

59. *Political Ethics* *2 credits*
A study of the obligations of the individual in and towards civil society: the origin and nature of the authority; the origin and nature of law, both natural and positive. The obligation arising from law. This course will emphasize contemporary theories of the origin and nature of law as affecting the attitudes and obligations of the individual in respect to civil authority.
One semester Evening

70. *History of Ancient Philosophy* *3 credits*
An analysis of the wisdom of the ancients stressing their scientific and philosophic contributions to the tradition of western civilization: the Milesians, Eleatics, Pythagoreans, Heraclitus, Democritus, Socrates, Plato, Aristotle, the Epicureans, Stoics, Sceptics, Neo-Platonists and Patristic philosophy.
One semester

71. *History of Medieval Philosophy* *3 credits*
An appraisal of the contribution of the schoolmen to the history of thought. Significance and originality of Augustine. Scotus Erigena, St. Anselm, the influence of the mystical schools, Arabian and Jewish philosophy, the controversy over the universals. Albert, Bonaventure, Roger Bacon, the Thomistic synthesis. Duns Scotus and Ockham; the decline of scholasticism and philosophical trends of the Renaissance.
One semester

72. *History of Modern Thought* — *3 credits*

Descartes; his methods, principles and influence on modern thought. Malebranche, Spinoza, Leibnitz, Hobbes, Locke, Berkeley, Hume. Kant and his influence: Fichte, Schelling, Hegel, Schopenhauer. Herbert Spencer: Nietzsche. Comparative study of Neo-Scholasticism and contemporary non-scholastic thought.
One semester

73. *History of Ethics* — *3 credits*

Survey and critical appreciation of the principal systems of moral philosophy, ancient and modern. Greek philosophy; Christian antiquity; medieval philosophy; modern systems.
One semester

DEPARTMENT OF PHYSICS

Physics, the science of the actions of inanimate objects, attempts to answer such questions as why, how and how much. It is a science in which the basic ideas and concepts are arrived at by processes of reasoning starting with known and observable facts. The purposes of the courses in physics are, (a) to enable the student to acquire a scientific method, (b) to acquaint the student with the physical quantities that play so vast a role in his everyday existence; (c) to give him a working knowledge of the instruments and devices used in making measurements of the physical quantities, (d) and finally to give him some knowledge of the applications of physics to the development of many of the mechanical, electrical and other devices of our modern civilization.

1 & 2. *General Physics* — *8 credits*

Fundamental course in mechanics, heat, magnetism, electricity, sound and light. Three hours lecture and two hours lab. Pre-requisite: Math. 1 & 2, or entrance credit in Trigonometry.
Two semesters

21. *Light and Optics* — *4 credits*

A treatment of geometrical and physical optics, optical phenomena, and the theory of optical instruments and measurements. The laboratory exercises are to acquaint the student with the handling of optical instruments and the making of measurements with them. Four hours. Pre-requisite: Physics 1 & 2, Math. 5 & 6, and preferably Math. 21 & 22.
One semester

22. *Heat and Thermodynamics* — *3 credits*

An expansion of the heat and thermodynamic ideas presented in the first course of physics. The course gives a fuller understanding of the thermal changes which take place in nature or are brought about in industry. Three hours. Pre-requisite: Physics 1 & 2; Math. 21 & 22.
One semester

51. *Mechanics* — *6 credits*

A course of introductory analytical mechanics covering kinematics, dynamics and kinetics. A brief introduction to fluid mechanics is also included. Required of all Physics majors. Three hours. Pre-requisites: Physics 1 & 2; and Math. 21 & 22. Two semesters

53 & 54. *Electricity and Magnetism* — *8 credits*

A thorough treatment of electrical and magnetic theory and phenomena. The topics to be treated include electrical and magnetic quantities, electromagnetic phenomena, electrical circuits (both d.c. and a.c.), theory of electrical measurements, magnetic theory, magnetic circuits and theory of magnetic measurements. Laboratory exercises are also included to familiarize students with the various methods and devices used to make electrical and magnetic measurements. Required of all physics majors. Four hours. Pre-requisites: Physics 1 & 2; and Math 21 & 22. Two semesters

61 & 62. *Radio Tubes and Circuits* — *8 credits*

The course treats the following topics: theory of thermionic emission; vacuum tube construction and operation; theory and operation of rectifiers, amplifiers, oscillators, receivers, modulators, transmitters and antennae. A brief treatment of high frequency tubes and circuits is also included. The accompanying laboratory course is designed to give the student practical experience in constructing and testing the operation of the various radio circuits. Four hours. Pre-requisites: Physics 1 & 2, and preferably Physics 53 and Math. 21 & 22.
Two semesters

63 & 64. *Modern Physics* — *6 credits*

Treats the topics of kinetic theory, electrical discharges in gases, electron theory, photoelectricity, x-ray and other electromagnetic radiations, radioactivity, nuclear phenomena and induced radioactivity. Recommended for Physics majors. Three hours. Pre-requisites: Physics 1 & 2, Math. 21 & 22, and preferably Physics 53. Two semesters

65. *Sound* — *3 credits*

A detailed study of the nature, production, propagation and absorption of sound; acoustics and the theory of sound measurements are also treated. Three hours. Pre-requisites: Physics 1 & 2; Math. 21 & 22, and preferably Physics 53.
One semester

67. *Medical Physics* — *3 credits*

This course is designed to fill the need of a second course of Physics for medical students. The purpose is to give these students a thorough knowledge of the many applications which are made of physical principles and physical devices in medical practice. It covers the theory and application of various electrical and magnetic devices, optical instruments, electronic devices, x-ray equipment and radioactivity. Three hours. Pre-requisites: Physics 1 & 2, and Math. 5 & 6.
One semester.

DEPARTMENT OF PSYCHOLOGY

Because of the unique position of psychology in the system of the special sciences, the main objective of the programme is twofold: first, a recognition of the necessity for correlating the results of psychological research with philosophical principles and for building psychological theory upon philosophical foundations; secondly, a study of principles, methods and scientific data of all types in order to enable the student to analyze in satisfactory psychological terms situations in which he plays a part.

51. *General Psychology* — *4 credits*

A survey of the field of psychology, its nature and scope. The human organism and its nervous system; simple and conditioned reflexes. Psychosomatic nature of man; sensation, perception, imagination and memory; associationism and gestaltism. Dynamic forces of human nature: pleasure and pain, impulse, desire, feeling, emotion, habit and instinct. Critique of modern theories.
One semester

52. *Rational Psychology* — *4 credits*

Animal and human psychology. The intellect and its functions; abstraction, origin of ideas, inference, reasoning. Volition, motivation, the nature of human freedom and responsibility. The conscious and subconscious mind; psychoanalysis; extranormal mental states. The human person; unity, nature, origin and destiny. The psychological grounds of character and personality.
One semester

53. *Mental Hygiene* — *2 credits*

Definition of mental hygiene and mental disorders; problems and objectives of mental hygiene; the mental life; what constitutes mind; mind, body and soul; the need of organization and balance. Personality and character. The normal and subconscious mind. The detection and prevention of unwholesome mental patterns. The thwarting of urges; the psychology of adjustment; types of self-defense mechanisms; the positive aspects of compensation. Creating the healthy mind; organizing channels of thought and action. The hygienic value of work, of a well-stocked mind, of avocational interests. The true value of religion for mental hygiene; the total product—human personality.
One semester — Evening

54. *Advanced Mental Hygiene* — *2 credits*

Critical approach to study of character and temperament; personality traits and their measurement; organic factors in personality. Heredity and environment; habits and training the adolescent. Hygiene of the emotions; defects of guidance and control in emotional life; the play of intellect in emotional life; sublimating emotions. Methods of reconstructing personality; the treatment of mental disorders; the development of emotional patterns; reaction to frustration; the integration of personality; personal adequacy as a function of discrimination and inhibition. The quest of happiness; the metaphysics of love; philosophic analysis of

love as a response to values in a person. Plato's misconception of love, the various types of love, the uniting force of love as a value response; characteristics of the various types of love as they are supernaturalized by love of God.
One semester Evening

55. *Contemporary Psychology* *2 credits*
Moderns schools and trends in psychology. Behaviorism; eidetism, gestalt—psychology. Psychoanalysis and other schools of the psychology of the unconscious; Freud; Adler, Jung. Philosophical approach to modern psychology.
One semester Evening

56. *Adolescent Psychology* *2 credits*
The successive stages of physical and mental development from childhood through adolescence. The rise of new impulses and emotions, the development of self-consciousness and social traits, as determining the growth of interests and the outlook upon life. The fundamental categories of evaluation as set forth in the philosophy of morals, of religion and of education.
One semester Evening

57. *Social Psychology* *2 credits*
The aim of this course is the development of an awareness to the psychological bases of social activity and organization. The origin, development and integration of personality and social behavior are emphasized in the light of the everyday social scene.
One semester Evening

DEPARTMENT OF RELIGION

The program in religion at the University of Scranton has been organized upon the fundamental principle that religion is something vital, which must be lived as well as understood. It is not intended to train theologians but rather to form thoroughly enlightened and strongly motivated Catholic gentlemen, bent upon attaining their full stature in the Mystical Body of Christ.

1 & 2. *The Sacraments and the Mass* *2 credits*
The course is devoted to a practical consideration of the seven sacraments and of the Sacrifice of the Mass as the central act of liturgical worship. Nature of grace produced by the sacraments as practical signs. Requirements for administration and reception. Baptism and supernatural birth; Confirmation; The Holy Eucharist; the Real Presence; Transubstantiation; Penance; Indulgences; Extreme Unction; Holy Orders; Matrimony; properties of marriage; impediments to matrimony; civil and ecclesiastical effects of marriage contract as a free contract.
Two semesters

21 & 22. *God and Creation* — *2 credits*

Existence and nature of God; the Mystery of the Blessed Trinity. Creation and supernatural destiny of men; original justice and original sin. The Immaculate Conception. Eschatology.
Two semesters

51 & 52. *Redemption and Life in Christ* — *2 credits*

The mystery of the Word made flesh. The union of the divine and human natures in the Person of Christ. The human intellect and will of Christ; theandric actions, holiness and merits of Christ. The prophetic office, power and priesthood of Christ; the redemptive sacrifice; the worship of Christ. Mariology. The effects of the redemption; supernatural life in Christ; the necessity and nature of sanctifying and actual grace; growth in Christ.
Two semesters

61. *Life in the Church* — *1 credit*

Intended to provide a review of previous courses and to give an advanced understanding of Catholic teaching, this course studies the meaning and reason of Catholic dogma in general, its historical necessity, its relation to the teaching authority of the Church and its foundation in the sources of revelation. The problem of Faith and Reason is discussed as a modern aspect of the above doctrine. This is followed by a study of the origin, purpose and history of the Gospel according to St. Matthew emphasizing the Person of Christ and the notion of Christian virtue.
One semester

62. *Life in the Church* — *1 credit*

The second part of the course is a study of the theological virtues of faith, hope and charity, and of the interior nature and external organization of the Church as instituted by Christ. These doctrines are studied directly from the text of the Discourse at the Last Supper and from related texts.
One semester

DEPARTMENT OF SOCIAL SCIENCE

This department has as its objectives the training of a broadly cultured man who can think critically and clearly and who can express his thoughts in a manner that will secure the sympathy and comprehension of his fellows. It aims to provide the student with a working knowledge of the problems of our political and economic society. In the exposition of the suggested solutions and remedies, the Catholic viewpoint is presented.

21. *Introduction to Sociology* — *3 credits*

Differentiation of the Social Sciences. Postulates. Social origins and the theory of evolution. The nature of man and the moral law. Social processes. Heredity

and environment in their relation to groups. The institutional groups. Communism and its practical manifestation—socialism. Social service; social justice.
One semester

22. *Social Problems and Agencies* — *3 credits*

Problems, such as: housing, crime, juvenile delinquency, mental defectiveness, dependency and relief; recreation and leisure, education, child welfare, the negro, rural needs, religion, family disintegration, etc. Special attention will be given to problems and agencies in local communities.
One semester

23 & 24. *Principles of Economics* — *6 credits*

An introduction to the principles of economic theory and their application to present day problems. A study of the economic organization of the United States—of consumption, production and marketing, foreign trade, money and credit, prices, foreign exchange, wage theories and the relation of employer and employed, capital and interest, rent, profits, and taxation. The course concludes with a critical examination of modern capitalism and alternative economic systems.
Two semesters

25. *Civic Problems* — *3 credits*

Nature and character of the State. The problem of Church and State. The origin and authority of the State. The functions of the State. Comparison of governmental systems. American problems. International relations.
One semester

50. *The Family* — *3 credits*

The family and social change. Family bonds. Relations between the church and the family. The community and the family. Preparation for marriage. Choosing a life-partner. Legal safeguards of the family. The family as an economic institution. Other institutional functions of the family. The home and leisure. Changing reciprocal relationships. Broken homes. Remedies tending toward family re-integration.
One semester

51. *Rural and Urban Sociology* — *3 credits*

Community setting. Founding and development. Local government. Provisions for dealing with crime. Provisions for public safety, for health care, for the handicapped, for family welfare. Housing. Planning and zoning. Educational resources. Religious agencies. Public assistance. Agencies for community planning and co-ordination.
One semester

52. *Criminology* — *3 credits*

Law and crime. Statistics and causes of crime. Physical and physiological factors in criminality. The home and family in relation to crime. Probation

and parole. The criminal juvenile court. Prison and punishment. Prevention of crime.
One semester

53. *Labor Problems* — *3 credits*

Social and economic factors in industrial relations, insecurity, inadequate income, sub-standard workers, industrial conflict, and labor unions, are studied. Labor legislation is examined in detail. Emphasis is placed on the problem of unemployment. Reports, readings and class discussion.
One semester

54. *Constitutional Law* — *3 credits*

The Constitution of the United States and of the State of Pennsylvania. Functions of the judiciary in enforcing constitutions; fundamental rights and immunities of persons; political rights, personal and religious liberty, protection to persons accused of crime, privileges and immunities of national and state citizenship; eminent domain; state laws impairing the obligation of contracts; powers of the national government.
One semester

55. *American Government* — *3 credits*

A study of the relationships between federal, state and local governments; attitudes of federal government toward private property; changes in rules of Congress; taxation; banking and currency acts; powers of the President; method of ratifying federal amendments; methods used in presidential elections.
One semester

56. *Political Science* — *3 credits*

This course is an analytical and comparative study of modern governmental systems. An intensive study is made of how leading governments of the world deal with the problems of government.
One semester

57. *Comparative Government* — *3 credits*

A comparison of the following systems of government: of the United States, of Japan, and of the principal nations of Europe. Attention will be directed to international relations, to imperialism, and world politics, and to the world-wide movement toward Communism since Marx.
Two semesters — Evening only

58. *International Law* — *3 credits*

Detailed study of its nature and scope. Acquisition and loss of international personality. Rights and duties of states (independence, jurisdiction on territory and public and private vessels). Boundaries on high seas. International

treaties. Agents of international intercourse (diplomatic, consular, etc.). Conflicts; Arbitration; Judicial Settlements; Collective sanctions; war (land, sea and aerial warfare). Rights of neutrals. Blockade and contraband.
One semester

59. *Current Economic Problems* — *6 credits*
Conducted by discussion and extensive collateral reading. This course aims to increase familiarity with the current economic situation. Problems in the international field include tariffs, exchange restrictions and foreign trade, currency depreciation, commodity prices, the World Economic Conference, the gold standard and international debts.
Two semesters

60. *Social Origins* — *3 credits*
Field of anthropology; primitive man and his culture; social structures in primitive society; religion among primitives; modern civilization and its relation to archaeology and ethnology.
One semester

61. *History of Social Thought* — *3 credits*
Exposition of pre-Christian, early Christian and medieval social thought with an examination of contemporary sociological theories.
One semester

College Organizations

LEAGUE OF THE SACRED HEART

The League of the Sacred Heart and Apostleship of Prayer is the oldest organization at the University of Scranton; it was founded in 1906 and at that time agregated to the central office of the League. Membership is open to all Catholic students. The League has for its purpose to foster among its members a sincere devotion to the Sacred Heart, and by the union of its members in prayer, to make reparation for sin and promote the apostolic work of the Church. Regular meetings are held on the First Friday of the month at 8:15 A. M. Rev. Vincent I. Bellwoar, S.J., *Moderator.*

Student Officers: Head Promoter and Promoter of Senior and Junior Classes, Richard P. Conaboy; Sophomore, Louis A. Bottei and Leonard Modzelesky; Freshman, Anthony J. Capone, John Goosley, Samuel J. Falbo and Joseph N. Tylenda.

SODALITY OF OUR LADY

The Sodality of Our Lady, under the primary title of the Immaculate Conception and with Saint Aloysius Gonzaga as its secondary patron, was founded at the University of Scranton on December 6, 1942, with the approval of the Bishop of Scranton and subsequently aggregated to the Roman Prima Primaria Sodality. Its object is to foster filial devotion to the Mother of Christ and the practice of virtue and piety among its members. Regular weekly meetings are held on Tuesday alternating between meetings in the students' Chapel and round table discussions in the auditorium. The works of the Sodality embrace the publishing of a News Sheet for Alumni in the armed forces, the teaching of catechism to public school children in local parishes, joint meetings with various other Catholic Colleges in the vicinity, and conducting socials and sports programs for local orphanages. Rev. Vincent I. Bellwoar, S. J., *Moderator.*

Student Officers: Prefect, Paul A. Doyle; First Assistant, Robert K. Cavanaugh; Second Assistant, Ambrose J. Gibbons; Secretary, Donald P. Lynott; Treasurer, Bernard V. Hyland. The Sodality Council: Robert J. McLaughlin, Leonard A. Erdman, William J. McGrath, E. Robert Galligan, Thomas O. Beirne, and John P. Gilroy.

THE AQUINAS

The Aquinas is a newspaper published monthly during the course of the school year by the students of the College. Its purpose is to foster the development of literary expression among the students, to afford a practical training in journalism and to chronicle the events of University life. Mr. William F. Williams, S.J., *Moderator.*

COUNCIL OF DEBATE

The University of Scranton debating society affords its members numerous opportunities to train themselves in the arts of formal argumentation and public speaking. Under its auspices are conducted annual oratorical contests and public debates with similar organizations at other colleges and universities. Public lectures are also prepared by members of the Council and delivered before various civic and social organizations.

The Council sponsors an elimination contest each year in which eight debaters from the upper classes are chosen to form the University team for intercollegiate debating. Another elimination contest is held for the freshman class to form a team for junior intercollegiate debating. Rev. Charles J. Denecke, S.J., *Moderator.*

INTERNATIONAL RELATIONS CLUB

The International Relations Club was founded in 1938 in order to promote a more intensive study of international problems and to gain a clearer understanding of international relations. Open forum discussions are held twice each month; and occasional radio broadcasts are given by members of the forum. Joint meetings with the Marywood International Relations Club are held periodically. The forum is affiliated with the international relations clubs of the Carnegie Foundation for International Peace. Rev. Francis L. Fadner, S.J., *Moderator.*

UNIVERSITY OF SCRANTON PLAYERS

From the very beginning the study and practice of dramatics have always played a prominent role in Jesuit College life. In continuance of this unbroken tradition of three hundred and fifty years' standing the dramatic society of the University has been organized to train and develop talented students in the art of drama. Members of the Society are given practical experience in the writing,

directing and producing of radio and stage plays. During the year the Society presents at least one play in full length and occasional one-act plays. Mr. Bernard J. McConnell, S.J., *Moderator.*

GLEE CLUB

The University Glee Club affords students with sufficient vocal talent an opportunity for practice in choral singing. During the course of the year a series of concerts is presented. Rev. Charles G. McManus, S.J., *Moderator.*

THE UNIVERSITY BAND

The University Band was organized in September, 1931. Any student with an aptitude for music is eligible for membership in the band. The band plays at many of the athletic and extra-curricular activities held in connection with the various University exercises and gives occasional concerts. Mr. Bernard J. McConnell, S.J., *Moderator;* Mr. Thomas H. Bainbridge, *Director.*

ALPHA SIGMA NU

Alpha Sigma Nu is a National Honor Society with chapters in various Jesuit Colleges and Universities throughout the United States. It is a society organized to honor students who have distinguished themselves in scholarship, service and loyalty to their college. Candidates are drawn from the Junior Class and are nominated by the local chapter, which also certifies the qualifications of the nominees. Those, who are approved by the President of the College and the Dean, are elected members and initiated into the organization.

TRI-SIGMA

In September, 1939, the Chemical Society and the Physics Club, which had been in existence for ten years, were merged into one organization. At the same time the scope of the society was broadened to include the biological sciences in order that all science students might be united in one general association. The title chosen for the organization, the Tri-Sigma Honorary Science Society, emphasizes the threefold interests of the members and the common bond uniting physics, chemistry and biology.

The general purpose of Tri-Sigma is to promote interest in the sciences, to encourage appreciation of their inter-relationships, and

to stimulate activities that will foster initiative and productive scholarship. Membership is obtained through application to the Executive Committee. Any student who has maintained a "B" average in three semesters of biology, three semesters of chemistry, and one semester of physics is eligible. Students who have failed to meet these standards but who have demonstrated marked scientific aptitude in one or more scientific subjects may be admitted to associate membership on the recommendation of the faculty advisors of the society. Rev. John J. Dougherty, S.J., *Moderator.*

THE BUSINESS CLUB

The Business Club is an organization composed of graduates and students of the University who are interested in business administration and accounting. The object of this club is to give the business student closer contact with actual business practices and to acquaint him personally with both local and national business executives and firms.

Meetings are held regularly at which guest speakers from the fields of business and economics are presented to the club. Field trips to all types of industry is another activity of this organization. Mr. John B. McLean, *Moderator.*

THE VETERANS CLUB

The Veterans Club is an organization with membership open to those who have served in the Armed Forces and are enrolled at the University. Its function is to help the veteran feel at home in University life. By sponsoring publicity, social and academic programs in which the veteran takes an active part, the club greatly facilitates the reorientation of its members. The faculty Moderator, and the officers, in close cooperation with the Dean and the faculty of the University, are making every effort to anticipate the needs of the veteran and work out an educational program which will adequately fulfill those needs. Rev. Aloysius J. Miller, *Moderator.*

ATHLETIC ASSOCIATION

In addition to governing and promoting intercollegiate competition in athletic games the association provides a program of physical training and intramural sports for the student body. Rev. John J.

Coniff, S.J., *Faculty Director.* Frank J. O'Hara, *Graduate Manager.* Peter A. Carlesimo, *Coach of Football and Basketball.*

STUDENT COUNCIL

The management of extracurricular and social activities at the University is placed in the hands of the Student Council. The range of its duties includes the preparation of the social calendar, the running of assemblies, the supervision of elections, the initiation and promotion of all kinds of student endeavor and the observance of college traditions.

The Student Council is composed of the President of the student body, the class presidents, a representative of each extracurricular activity, the moderator and one lay professor of the faculty. Regular weekly meetings are held for the conduct of ordinary business. Rev. Edward G. Jacklin, S.J., *Moderator.*

ALUMNI ASSOCIATION

The University Alumni Association has been formed to perpetuate friendships formed at the University, to foster among its members a spirit of loyalty to their Alma Mater and to extend the influence and advance the interests of the University. Regular meetings and reunions are held from time to time as prescribed in the rules and by-laws of the association. Rev. Joseph A. Cawley, S.J., *Moderator.*

Scholarships

Among the many needs of the University none is of more importance than the foundation of scholarships to meet the increasing number of requests from students of exceptional ability, who without financial aid are unable to secure the advantages of a college education. To found a full scholarship requires the sum of $8,000; partial scholarships can also be established by smaller gifts. Each scholarship will bear and perpetuate the name of the donor or the person designated by him. All scholarships, full or partial, are accepted with the understanding that the income from the sum will be the amount applicable to the holder of the scholarship.

The student in possession of a scholarship will be required to maintain an average of at least 75 in all his courses and to observe all other scholastic and disciplinary regulations of the college. Failure to do so entails forfeiture of the scholarship. Students holding a partial scholarship will pay the amounts their scholarships fall short of the full tuition. Books, fees and other incidental expenses are not included in any scholarship. The following scholarships are available:

UNIVERSITY SCHOLARSHIPS

The University offers fifteen scholarships of the value of $150 each to deserving students.

PURPLE CLUB SCHOLARSHIPS

Eight scholarships of the value of $150 each are annually awarded by the Purple Club. The Board of Directors of the Purple Club selects the students to whom these scholarships are awarded.

THE STRIVER'S CLUB SCHOLARSHIPS

Four scholarships of an annual value of $200 each, awarded to Hebrew students who attain the highest grades in a competitive examination.

GIFTS AND BEQUESTS

Gifts to the University may take the form of funds for the establishment of scholarships or professorships; or the foundation of medals and other prizes; of additions to the material equipment;

of collections of educational value; of contributions to the general fund, or may be undesignated. Those desiring to make a bequest to the University of Scranton may be helped by the following suggested form:

FORM OF BEQUEST

I give (devise) and bequeath to the University of Scranton, an institution incorporated under the laws of the Commonwealth of Pennsylvania and located in Scranton, Pennsylvania, and its successors forever the sum of.....dollars (or otherwise describe the gift) for its general corporate purposes (or name a particular corporate purpose).

Evening and Summer Sessions

The University offers the use of its facilities to adult groups who are unable to attend the regular day sessions but who wish either to complete studies for a degree or to broaden and refresh their acquaintance with various fields of knowledge without seeking a degree. To meet their needs courses of study are conducted during the summer and in the evening from 6:30 to 10:15 P. M. The courses, which are offered, are taught by members of the University faculty: and the instruction, which is given, will be the exact counterpart of the courses offered during the regular day sessions.

A candidate for the degree of Bachelor of Arts or Bachelor of Science in the evening and summer sessions must satisfy the requirements for admission and the same standards of scholarhip as the students in the day sessions. The curriculum for a degree comprises one hundred and thirty-two semester hours of college studies, of which thirty-two at least must be completed in regular course at the University.

Each candidate is obliged to complete at least one year of residence prior to the final examination for the degree: a residential year supposes the completion of a minimum of thirty-two semester hours at the University. Students working for a degree are required to follow the prescribed sequence in certain courses, and must have their program of studies for each year approved by the Dean. Teachers in service may earn a maximum of six credit hours per semester in the evening sessions. All students who intend to do practice teaching must notify the Director of Practice Teaching at least three months prior to the practice teaching period.

The Summer School courses will run for eight weeks; the lecture and laboratory work will be so arranged that credit for one semester's work may be given in the courses taken. Students at the discretion of the Dean may be permitted to pursue courses in the Summer Session for the purpose of obtaining advanced standing. Students who are delinquent in any course may attend the summer sessions and make up one semester's credit in this course. No student will be permitted to complete more than nine semester hours of credit in a summer session.

ANNUAL COMMENCEMENT

of the

UNIVERSITY of SCRANTON

September Fifth, Nineteen Hundred Forty-three

The Scranton Estate, Scranton, Pennsylvania

Program

Processional—March et Cortege—from La Reine De Saba....*Gounod*

The Star Spangled Banner.....The Audience

Invocation—Veni Creator.....The Graduates

President's Address

The Very Reverend W. Coleman Nevils, S.J., D.D.

Conferring of Degrees

Awarding of Prizes

Alma Mater.....The Graduates

Address to the Graduates.....Mr. Worthington Scranton

Recessional—Coronation March from The Prophet.....*Meyerbeer*

GRADUATES

GRADUATED WITH HIGHEST HONORS

Thomas Paul McTighe, B.A.

GRADUATED WITH HONORS

Michael Bucan, B.S.
William Andrew Chupka, B.S.
Walter Snyder Dietrich, B.S.
Alfred Eisenpreis, B.A.
Charles Kirshner, B.S.
Edward Joseph Legenza, B.S.
Joseph Francis Lydon, B.S.
Donald Vincent Paone, B.S.
George Charles Powell, B.A.

BACHELOR OF ARTS DEGREE

James Joseph Davis
Alfred Eisenpreis
Robert Joseph Gallagher
Joseph Paul Greeley
Rush B. Gunther
Theophil Damian Krehel
William Vincent McDonnell
Thomas Paul McTighe
Ira Marvin
William Joseph Murphy
George Charles Powell
Rudolph John Smith
Miriam Wilner

BACHELOR OF SCIENCE DEGREE

Major: Physical and Biological Sciences

James Edward Boland
Edward William Borowsky
Michael Bucan
Raymond August Caldarelli
William Andrew Chupka
John Gerard Connell
Neal Thomas Conway
Walter Snyder Dietrich
Robert Joseph Donovan
Joseph Stephen Dubernas
Joseph Meyer Dubin
Joseph Thomas Evans
John Joseph Gaffney
Arthur Richard Goerlitz
Albert Roman Jasuta
Charles Kirshner
Walter Joseph Krywicki
Edward Joseph Legenza
William Joaquim Lussy
Joseph Francis Lydon
John Francis Mack
Thaddeus Stanley Nowinski
Raymond Francis Palmowski
Richard Romeo Rossi
Nat Harold Sommer
Conrad C. Spatz
Francis Xavier Walsh
Francis Clement Witkowski
Henry George Yavorek
Joseph Theodore Zukoski

BACHELOR OF SCIENCE DEGREE

Major: Business

Joseph Emmanuel Cuff
Hugh Joseph Gownley
Daniel Joseph Houlihan
Harold Bernard Itzkowitz
Laurence Robert Juckett
Joseph Kennedy Lynn
James Joseph McGraw
Donald Vincent Paone

ANNUAL COMMENCEMENT
of the
UNIVERSITY of SCRANTON

May Twenty-eighth, Nineteen Hundred Forty-four
The Scranton Estate, Scranton, Pennsylvania

Program

Processional March.....*Xavier Scharwenka*
The Star Spangled Banner.....The Audience
Invocation—Veni Creator.....The Graduates
President's Address
The Very Reverend W. Coleman Nevils, S.J., D.D.
Presentation of Candidates
Reverend Edward J. Baxter, S.J., Dean
Conferring of Degrees
Alma Mater.....The Graduates
Address to the Graduates.....John M. McCourt, Esq.
Recessional—Festival March.....*Gaston Borch*

GRADUATES

BACHELOR OF ARTS DEGREE

Stephen James Budash
Francis Anthony Dobrowolski
Joseph Jude Kubasko
Francis Michael Lukash
George James Murdock
Robert Andrew Schooley

BACHELOR OF SCIENCE DEGREE

Major: Physical and Biological Sciences

Alio Joseph Buselli
Edmund Joseph Janosczyk
Stephen Albert Sirotnak
Marion Jane Vincent

BACHELOR OF SCIENCE DEGREE

Major: Business Administration

Helen Harrington Farrell
Trevor Morgan Harding
Edward Joseph McGuire
Joseph Richard Morris
Wilbur John Smiles

ANNUAL COMMENCEMENT

of the

UNIVERSITY OF SCRANTON

JUNE TENTH, NINETEEN HUNDRED FORTY-FIVE

THE SCRANTON ESTATE, SCRANTON, PENNSYLVANIA

PROGRAM

PROCESSIONAL—La Reine de Saba.....*Gounod*

THE STAR SPANGLED BANNER.....Audience

INVOCATION—Veni Creator.....The Graduates

PRESIDENT'S ADDRESS
The Very Reverend W. Coleman Nevils, S.J., D.D.

CONFERRING OF DEGREES

SERENADE.....*Anton Emil Titl*

ADDRESS TO THE GRADUATES.....Harry C. McGrath, Esq.

RECESSIONAL—Stars and Stripes.....*John Philip Sousa*

DEGREE CANDIDATES, 1945

BACHELOR OF ARTS

Marie B. Beatty
Edward Joseph Buchla
Alfred Peter Chernowski
Marjorie Mary Davis
Joseph Venard Gallagher
Francis Xavier Gerrity
Kenneth Thomas Horan
Henry George Knowles
Ida Phillips Reese
Clement Joseph Saylor
William A. Shannon
Carl Anthony Wisniewski
John Andrew Zajac

BACHELOR OF SCIENCE

Major: Biological and Physical Sciences

Paul Joseph Cherney
Milton Morgan Evans, Jr.
Salomon Fisch
Joseph Leonildo Leoni
Warren Alonzo Snyder
Romeyn Anne Snyder

BACHELOR OF SCIENCE

Major: Business

Harlan Yost Jones
Ernest Theodore Weibel

REGISTRATION

February, 1945

Senior Class

Evans, Milton.....Taylor, Pa.
Fisch, Salomon.....Havana, Cuba
Gallagher, Joseph.....Clarks Summit, Pa.
Horan, Kenneth.....Carbondale, Pa.
Knowles, Henry.....West Pittston, Pa.
Leoni, Joseph.....Wilkes-Barre, Pa.
McDermott, Robert.....Wilkes-Barre, Pa.
Saylor, Clement.....Ashley, Pa.
Shannon, William A.....Carbondale, Pa.
Snyder, Romeyn.....Scranton, Pa.
Zajac, John.....Scranton, Pa.

Junior II

Cook, John.....Pittston, Pa.
Doyle, Paul.....Carbondale, Pa.
Gelb, Albert.....Wilkes-Barre, Pa.
Hazzouri, Albert.....Scranton, Pa.
Lewicki, Edward.....Dickson, Pa.
Lewis, Benjamin.....Dunmore, Pa.
McDonald, Frank.....Throop, Pa.
McGuire, Charles.....Pittston, Pa.
McManus, Peter.....Binghamton, N. Y.
Parish, Louis.....Dunmore, Pa.
Pittle, Carl.....Scranton, Pa.

Junior I

Bodnar, George.....Scranton, Pa.
Caffrey, Margaret.....Scranton, Pa.
Cavanaugh, Robert.....Scranton, Pa.
Conaboy, Richard.....Minooka, Pa.
Culkin, Joseph.....Scranton, Pa.
Groncki, Edward.....Minooka, Pa.
Jalowiec, Edward.....Avoca, Pa.
Kilgour, William.....Scranton, Pa.
McGraw, Michael.....Dunmore, Pa.
Nowinski, Stanley.....Wilkes-Barre, Pa.

Sophomore II

Anthony, Andrew.....Scranton, Pa.
Bodek, Lester.....Kingston, Pa.
Brennan, James.....Hazleton, Pa.
Chmelewski, Edward.....Wilkes-Barre, Pa.
Gibbons, Ambrose.....Pittston, Pa.
Greco, Victor.....Hazleton, Pa.
Healey, Patrick.....Avoca, Pa.
Higgins, Paul.....Scranton, Pa.
Hoban, John.....Scranton, Pa.
Kaplan, Saul.....Olyphant, Pa.
McLaughlin, Robert.....Carbondale, Pa.
Meacham, Louis.....Naugatuck, Conn.
Melenkevitz, Henry.....Dickson, Pa.
Rosenfeld, Bernard.....Olyphant, Pa.
Stento, Bernard.....Binghamton, N. Y.
Wolski, Joseph.....Scranton, Pa.
Yarish, Edward.....Wilkes-Barre, Pa.

Sophomore I

Bottei, Louis.....Old Forge, Pa.
Coffey, Edward.....Dupont, Pa.
Dende, Ray.....Scranton, Pa.
Doster, Gerald.....Wilkes-Barre, Pa.
Erdman, Leonard.....Dunmore, Pa.
Fabi, Mario.....Scranton, Pa.
Fasciana, Michael.....Pittston, Pa.
Grady, Joseph.....Plains, Pa.
Hagy, Henry.....Scranton, Pa.
Harrison, LeRoy.....Scranton, Pa.
Hogan, Bernard.....Carbondale, Pa.
Kamenetsky, Samuel.....Scranton, Pa.
Kelley, Joseph.....Kingston, Pa.
Klein, Sheldon.....Scranton, Pa.
Knuth, Martin.....Scranton, Pa.
Latzanich, Michael.....Dunmore, Pa.
Linko, Joseph.....Scranton, Pa.
Lynott, Donald.....Pittston, Pa.
McDermott, Harry.....Scranton, Pa.
Malyszek, Walter.....Scranton, Pa.
Mangan, Joseph.....Pittston, Pa.
Moran, John.....Scranton, Pa.
Nasser, James.....Dupont, Pa.
Ozovek, Frank J.....Duryea, Pa.
Pryor, Eugene.....Scranton, Pa.
Rembecki, Joseph.....Dickson, Pa.
Rodney, William.....Scranton, Pa.
Russian, Martin.....Dickson City, Pa.
Shutack, Stephen.....Nesquehoning, Pa.
Strassman, Selig.....Scranton, Pa.
Triano, Gene.....Hazleton, Pa.

FRESHMAN II

Adams, Henry.....Minooka, Pa.
Andrews, Paul.....Wilkes-Barre, Pa.
Baroff, Harry.....Scranton, Pa.
Bartkowski, Joseph.....Dickson City, Pa.
Beilman, Paul.....Scranton, Pa.
Beirne, Michael.....Towanda, Pa.
Bisignani, Armond.....Jessup, Pa.
Briggs, Donald.....Scranton, Pa.
Davis, William.....Dunmore, Pa.
de la Guardia, A. Tomas.....Panama
Dolinish, Edward.....Pittston, Pa.
Doran, Bernard.....Wilkes-Barre, Pa.
Duffy, Kenneth.....Wilkes-Barre, Pa.
Fleming, William.....Scranton, Pa.
Gardier, Robert.....Scranton, Pa.
Gerrity, Joseph.....Olyphant, Pa.
Gorelick, Benjamin.....Scranton, Pa.
Griglock, William.....Exeter, Pa.
Harbaugh, David.....Scranton, Pa.
Harowitz, Filmore.....Scranton, Pa.
Hyland, Bernard.....Scranton, Pa.
Joyce, Joseph.....Minooka, Pa.
Kelly, Leo.....Scranton, Pa.
Kurilecz, Joseph.....Binghamton, N. Y.
Loftus, Francis.....Jessup, Pa.
Lukas, Leonard.....Kingston, Pa.
McDonald, Joseph.....Dunmore, Pa.
McDonnell, Mark.....Archbald, Pa.
McGrath, William.....Scranton, Pa.
Malone, Raymond.....Meshoppen, Pa.
Modzelesky, Leonard.....Scranton, Pa.
Morgan, Frederick.....Scranton, Pa.
Nalevanko, William.....Olyphant, Pa.
O'Hara, John.....Scranton, Pa.
Pavuk, Thomas.....Jessup, Pa.
Sebastiani, Angelo.....Eynon, Pa.
Shinal, John.....Wilkes-Barre, Pa.
Sottile, Louis.....Scranton, Pa.
Stella, Joseph.....Scranton, Pa.
Svetalavich, Albert.....Scranton, Pa.
Tomsykoski, Adam.....Simpson, Pa.
Turlip, Maurice.....Carbondale, Pa.
Violanti, Anthony.....Archbald, Pa.
Walsh, John.....Archbald, Pa.
Warkala, Joseph.....Wyoming, Pa.
Waselus, Paul.....Nanticoke, Pa.
Wec, Joseph P.....Scranton, Pa.
Wullert, John.....Scranton, Pa.
Xanthopoulos, James.....Wilkes-Barre, Pa.

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Alexander, Frank.....Clarks Green, Pa.
Aquilina, Stephen.....Scranton, Pa.
Austin, Joseph.....Jermyn, Pa.
Bielinski, Theodore.....Dickson City, Pa.
Calderon, Gabriel.....Puerto Rica
Chimel, Stanley.....Scranton, Pa.
Daley, James.....Scranton, Pa.
DeOrio, Balty.....Avoca, Pa.
Dolan, Donald.....Scranton, Pa.
Dutka, Joseph.....Olyphant, Pa.
Feeney, Paul.....Plymouth, Pa.
Ferguson, John.....Scranton, Pa.
Gagliardi, Conrad.....Pittston, Pa.
Galligan, Edward.....Scranton, Pa.
Goosely, John.....Dupont, Pa.
Hughes, John.....Kingston, Pa.
James, Henry.....Scranton, Pa.
Johnson, Ross.....Moosic, Pa.
Loftus, Edward.....Moosic, Pa.
Majchrzak, Francis.....Blossburg, Pa.
Motley, John.....Clarks Summit, Pa.
Mullen, Donald.....Archbald, Pa.
Mullen, John.....Archbald, Pa.
Mulligan, James.....Wilkes-Barre, Pa.
O'Brien, James.....Scranton, Pa.
O'Connor, Joseph.....Olyphant, Pa.
Pallo, John.....Dunmore, Pa.
Puzo, Armond.....Exeter, Pa.
Reminiskey, John.....Jessup, Pa.
Rodgers, James.....Ashley, Pa.
Santarelli, Robert.....Dunmore, Pa.
Skibinski, Paul.....Scranton, Pa.
Slick, Joseph.....Forest City, Pa.
Trapold, Joseph.....Wilkes-Barre, Pa.
Von Storch, Robert.....Scranton, Pa.
Waltos, John.....Wilkes-Barre, Pa.
Zimmerman, Arthur.....Clarks Summit

SPECIALS

Brennan, William.....Carbondale, Pa.
Chiappi, Dori.....Pittston, Pa.
Foote, Marjorie.....Scranton, Pa.
Kosakowski, Stanley.....Bayonne, N. J.
Kelley, Howard.....Clarks Green, Pa.
McSweeney, Robert.....Wilkes-Barre, Pa.
Pallman, Charles.....Clarks Summit, Pa.
Perrige, John.....Scranton, Pa.
Rippon, Donald.....Jermyn, Pa.

EVENING SCHOOL, 1945-46

Allsopp, John.....Forty Fort, Pa.
Alpert, Ruth.....Scranton, Pa.
Andzulis, William.....Forest City, Pa.
Anthony, Elmer.....Scranton, Pa.
Anthony, Willard.....Dunmore, Pa.
Anestes, Athena.....Olyphant, Pa.
Barber, Ada.....Scranton, Pa.
Barber, Helen.....Scranton, Pa.
Barrett, Margaret.....Archbald, Pa.
Bau, Florence.....Dupont, Pa.
Beatty, Marie.....Olyphant, Pa.
Berger, Rose.....Archbald, Pa.
Best, Kathryn.....Scranton, Pa.
Biggar, Helen.....Moosic, Pa.
Birch, William.....Scranton, Pa.
Blue, Paul.....Scranton, Pa.
Bodek, Lester.....Kingston, Pa.
Bohn, Robert.....Wilkes-Barre, Pa.
Boland, Catherine.....Carbondale, Pa.
Boland, Florence.....Carbondale, Pa.
Borzak, Anthony.....Scranton, Pa.
Brecht, Charlotte.....Scranton, Pa.
Brennan, Mary.....Duryea, Pa.
Briggs, Donald.....Scranton, Pa.
Brown, William J.....Scranton, Pa.
Buchla, Edward.....Jessup, Pa.
Burak, Joseph.....Throop, Pa.
Burke, Anita.....Dickson City, Pa.
Burke, Leona.....Scranton, Pa.
Burke, Joseph.....Scranton, Pa.
Burne, Philip.....Scranton, Pa.
Burns, Barbara.....Scranton, Pa.
Burns, James.....Pittston, Pa.
Butler, Charles.....Forty-Fort, Pa.
Carpenter, June.....Exeter, Pa.
Chiappi, Dori.....Pittston, Pa.
Clark, Prudence.....New Milford, Pa.
Cockerill, Edwina.....Scranton, Pa.
Coffe, John.....Avoca, Pa.
Collier, Joan.....Pittston, Pa.
Compton, Forrest.....Lake Ariel, Pa.
Conaboy, James.....Scranton, Pa.
Conning, Dorothy.....Scranton, Pa.
Conway, Neal.....Scranton, Pa.
Coombs, Eliza.....Taylor, Pa.
Corti, Alba.....Scranton, Pa.
Cosgrove, James.....Pittston, Pa.
Cosgrove, Richard.....Pittston, Pa.
Crowley, John.....Scranton, Pa.
Cummings, Richard.....Scranton, Pa.
Dasenberg, Juel.....Archbald, Pa.
David, Margaret.....Scranton, Pa.
Davidson, Doris.....Scranton, Pa.
Davis, Marjorie.....Duryea, Pa.
Davis, William E.....Scranton, Pa.
Davis, William J.....Taylor, Pa.
Decker, Elizabeth.....Taylor, Pa.
Degen, Richard.....Scranton, Pa.
Deichmiller, Dorothy.....Scranton, Pa.
Dempsey, Elizabeth.....Carbondale, Pa.
Devereaux, Ruth.....Scranton, Pa.
Dimmick, Orville.....Scranton, Pa.
Duffy, Joseph.....Scranton, Pa.
Duffy, Mary.....Scranton, Pa.
Duffy, Sally.....Scranton, Pa.
Dunleavy, Betty.....Carbondale, Pa.
Dunleavy, John.....Forest City, Pa.
Earley, Robert.....Scranton, Pa.
Eiden, Loretta.....Scranton, Pa.
Emick, Hattie.....Scranton, Pa.
Engelmeyer, Alfred.....Taylor, Pa.
Evans, Dorothy.....Jermyn, Pa.
Evans, Mary.....Taylor, Pa.
Evans, Milton.....Taylor, Pa.
Farbanish, Ann.....Olyphant, Pa.
Feeney, James.....Olyphant, Pa.
Fickus, Dorothy.....Scranton, Pa.
Fiene, Irmgard.....Scranton, Pa.
Fink, Gvitella.....Scranton, Pa.
Fisch, Salomon.....Havana, Cuba
Fisher, Earl J.....Tamaqua, Pa.
Fitzpatrick, John.....Scranton, Pa.
Forliano, Peter.....Hazleton, Pa.
Fox, Floyd.....Scranton, Pa.
Frar, Margaret.....Harford, Pa.
Freedman, Gloria.....Scranton, Pa.
Freidlin, Gloria.....Scranton, Pa.
Fricchione, Daniel.....Scranton, Pa.
Fuller, Gerard.....Scranton, Pa.
Galbraith, Helen.....Scranton, Pa.
Galenas, Ann.....Scranton, Pa.
Gallagher, Alice.....Scranton, Pa.
Garoppolo, Joseph.....Scranton, Pa.
Garvey, Lucille.....Scranton, Pa.
Gaughan, Florence.....Olyphant, Pa.
Gavigan, John.....Pittston, Pa.
Gazella, Helen.....Olyphant, Pa.
Genovese, Casper.....Scranton, Pa.
Gerlak, Tessie.....Dupont, Pa.
Gilmartin, Bernice.....Carbondale, Pa.
Godfrey, Philip.....Chinchilla, Pa.
Goerlitz, Arthur.....Hamlin, Pa.
Goldman, Lillian.....Scranton, Pa.
Grassi, Enzo.....Scranton, Pa.
Grogan, Anna.....Duryea, Pa.
Groncki, Mary.....Minooka, Pa.
Grossman, Bernard.....Plains, Pa.
Grywacz, Joseph.....Mayfield, Pa.
Gutoski, Amelia.....Duryea, Pa.
Haggerty, Marcella.....Scranton, Pa.
Hare, Olive.....Olyphant, Pa.
Harney, Anna.....Dunmore, Pa.

Hart, Gerald.....Scranton, Pa.
Heider, Bernard.....Scranton, Pa.
Heil, Celeste.....Scranton, Pa.
Herrmann, Ruth.....Scranton, Pa.
Hoban, John.....Scranton, Pa.
Holland, Albert.....Peckville, Pa.
Hollander, Anne.....Old Forge, Pa.
Hollander, Ceil.....Old Forge, Pa.
Hopkins, Andrew.....Scranton, Pa.
Hudson, Doris.....Scranton, Pa.
Hushelpeck, Agnes.....Duryea, Pa.
Jackson, Gerald.....Scranton, Pa.
James, Henry.....Scranton, Pa.
Jennings, Lucille.....Scranton, Pa.
Jesse, Wayne.....Harford, Pa.
Johnson, Paul.....Pittston, Pa.
Jones, David.....Scranton, Pa.
Jones, Edward.....Scranton, Pa.
Jones, Harlan.....West Pittston, Pa.
Kaufman, William.....Scranton, Pa.
Kay, Joann.....Moosic, Pa.
Kearney, Thomas.....Scranton, Pa.
Keisling, Mildred.....Scranton, Pa.
Kelly, Mrs. Charlotte.....Dunmore, Pa.
King, Edward.....Scranton, Pa.
Kingsley, Eustelle.....Scranton, Pa.
Kishava, Sophie.....Dupont, Pa.
Klein, Jean.....Scranton, Pa.
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Kovaleski, Anthony.....Scranton, Pa.
Kozy, William.....Scranton, Pa.
Kralikowski, Frank.....Taylor, Pa.
Kruger, Clare.....Dunmore, Pa.
Lacey, Clarence.....Scranton, Pa.
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Latham, Emily.....Nicholson, Pa.
Lathrop, Mrs. Douglas....Springville, Pa.
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Lennon, Eugene.....Scranton, Pa.
Leonard, Thomas.....Scranton, Pa.
Levy, J. Julius.....Scranton, Pa.
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Lewicki, Edward.....Dickson, Pa.
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Lynch, Margaret.....Olyphant, Pa.
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McAndrew, Matt.....Archbald, Pa.
McCloskey, Mrs. Doris.....Hamlin, Pa.
McDermott, Kathryn.....Clarks Summit
McDonald, Frank.....Throop, Pa.
McDonald, Jean.....Moscow, Pa.
McFadden, Jane.....Carbondale, Pa.
McGrath, Mollie.....Scranton, Pa.
McGraw, Michael.....Dunmore, Pa.
McHale, Helen.....Carbondale, Pa.
McHale, Mildred.....Olyphant, Pa.
McHale, William.....Scranton, Pa.
McNulty, Marie.....Olyphant, Pa.
McMenamin, Elizabeth.....Scranton, Pa.
McQueen, Miriam.....Moosic, Pa.
Mackrell, Margaret.....Jessup, Pa.
Mangan, Frank.....Scranton, Pa.
Mannion, Monica.....Carbondale, Pa.
Marcelonis, Margaret.....Duryea, Pa.
Masters, Jane.....Scranton, Pa.??
Mason, Virginia.....Scranton, Pa.
Meacham, Louis.....Naugatuck, Conn.
Melone, Helen.....Pittston, Pa.
Menik, Margaret.....Dupont, Pa.
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Moore, Lester.....Dickson City, Pa.
Moran, Margaret.....Chinchilla, Pa.
Murray, Francis.....Plymouth, Pa.
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Nagle, Elizabeth K.....Scranton, Pa.
Nagy, William.....Wyoming, Pa.
Navas, Alice.....Scranton, Pa.
Neary, Leo.....Carbondale, Pa.
Needham, Mrs. Mary.....Scranton, Pa.
Neiman, Blanche.....Old Forge, Pa.
Neuser, Clare.....Dunmore, Pa.
Noone, Margaret.....Scranton, Pa.
Nuttall, Fred.....Scranton, Pa.
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O'Leary, Thomas.....Dunmore, Pa.
O'Malley, Barbara.....Scranton, Pa.
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O'Neill, Gregory.....Forest City, Pa.
Oshesky, Irene.....Pittston, Pa.
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Pacusa, Martha.....Pittston, Pa.
Parrella, Joseph.....Exeter, Pa.
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Penyak, Joseph.....Scranton, Pa.
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Phillips, Ida.....Scranton, Pa.
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Pavuk, Mary.....Jessup, Pa.
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Potter, Portia.....Nicholson, Pa.
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Reilly, Evelyn.....Scranton, Pa.
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Rhoda, Thomas.....Dallas, Pa.
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Wanat, Sophia.....Dupont, Pa.
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